Self Diagnosis Supported model

SERVICE MANUAL

DA-4 CHASSIS

MODEL NAME	REMOTE COMMANDER	DESTINATION	CHASSIS NO.
KV-27HS420	RM-Y197	US	SCC-S66P-A
KV-27HS420	RM-Y197	CANADA	SCC-S70N-A
KV-29DRC420	RM-Y197	LATIN NORTH	SCC-S71L-A
KV-29DRC420	RM-Y197	LATIN SOUTH	SCC-S71M-A
KV-30HS420	RM-Y197	US	SCC-S66Q-A
KV-30HS420	RM-Y197	CANADA	SCC-S70P-A
KV-30HS420	RM-Y197	HAWAII	SCC-S69H-A
KV-32HS420	RM-Y197	US	SCC-S66R-A
KV-32HS420	RM-Y197	CANADA	SCC-S70Q-A
KV-34HS420	RM-Y197	US	SCC-S66S-A
KV-34HS420	RM-Y197	CANADA	SCC-S70R-A
KV-36HS420	RM-Y197	US	SCC-S66T-A
KV-36HS420	RM-Y197	CANADA	SCC-S70S-A
KV-36HS420	RM-Y197	HAWAII	SCC-S69J-A

KV-30HS420

RM-Y197

TRINITRON® COLOR TELEVISION

9-965-963-01

SONY®

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SPECIFICATIONS

	KV-29DRC420	KV-27HS420	KV-30HS420	KV-32HS420	KV-34HS420	KV-36HS420
Power Requirements	220V, 50-60Hz	120V, 60Hz				
Number of Inputs/Outputs						
Video [1]	4	4				
S Video [2]	3	3				
Y,PB, PR [3]	2	2				
Audio [4]	7	7				
Audio Out [5]	1	1				
Monitor Out	1	1				
Control-S (In/Out)	YES	YES				
Memory Stick	NO	NO				
Speaker Output (W)	10w x 2 15W Subwoofer	10W x 2 15W Subwoofer	10W x 2 15W Subwoofer	10W x 2 15W Subwoofer	10W x 2 15W Subwoofer	
Power Consumption (W)						
In Use (Max)	240W	240W				
In Standby	1W	1W				
Dimensions (W x H x D)						
mm	784 x 601.5 x 520 mm	784 x 601.5 x 520 mm	898 x 604 x 564.5 mm	898 x 698 x 598 mm	994 x 654 x 604 mm	994 x 776.5 x 634 mm
in	30 7/8 x 23 5/8 x 20 1/2 in	30 7/8 x 23 5/8 x 20 1/2 in	35 3/8 x 23 3/4 x 22 1/4 in	35 3/8 x 27 1/2 x 23 1/2 in	39 1/8 x 25 3/4 x 23 3/4 in	39 1/8 x 30 5/8 x 25 in
Mass						
kg	50.2 kg	50.2 kg	68 kg	74.8 kg	88 kg	104.3 kg
lbs	111 lbs	111 lbs	150 lbs	165 lbs	194 lbs	230.0 lbs

1) 1 Vp-p 75 ohms unbalanced, sync negative
2) Y: 1 Vp-p 75 ohms unbalanced, sync negative
   C: 0.286 Vp-p (Burst signal), 75 ohms
3) Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative;
   P_B: 0.7 Vp-p, 75 ohms
   P_R: 0.7 Vp-p, 75 ohms
4) 500 mVrms (100% modulation), Impedance: 47 kilohms
5) More than 408 mVrms at the maximum volume setting (variable)
   More than 408 mVrms (fix); Impedance (output): 2 kilohms
6) 3.3V T.M.D.S., 50 ohms
   The DVI-HDTV input terminal is complieant with the EIA-861 standard and is not intended for use with personal computers.

TruSurround™ by SRS (●)®

TruSurround is a trademark of SRS Labs, Inc. SRS and the SRS symbol are registered trademarks of SRS Labs, Inc. in the United States and in select foreign countries. SRS and TruSurround are incorporated under license from SRS Labs, Inc. and are protected under United States Patent Nos. 4,748,669 and 4,841,572 with numerous additional issued and pending foreign patents. Purchase of this product does not convey the right to sell recordings made with the TruSurround technology.

(●) SRS (SOUND RETRIEVAL SYSTEM)

The (●) SRS (SOUND RETRIEVAL SYSTEM) is manµFactured by Sony Corporation under license from SRS Labs, Inc. It is covered by U.S. Patent No. 4,748,669. Other U.S. and foreign patents pending.

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Design and specifications are subject to change without notice.

Television system

American TV standard, NTSC

Channel coverage

VHF: 2-13/ UHF: 14-69/ CATV: 1-125

Picture tube

FD Trinitron® tube

Visible screen size

27-inch picture measured diagonally (KV-27HS420/29DRC420 Only)
30-inch picture measured diagonally (KV-30HS420 Only)
32-inch picture measured diagonally (KV-32HS420 Only)
34-inch picture measured diagonally (KV-34HS420 Only)
36-inch picture measured diagonally (KV-36HS420 Only)

Actual screen size

29-inch measured diagonally (KV-27HS420/29DRC420 Only)
32-inch measured diagonally (KV-30HS420 Only)
34-inch measured diagonally (KV-32HS420 Only)
36-inch measured diagonally (KV-34 HS420 Only)
38-inch measured diagonally (KV-36HS420 Only)

Antenna

75 ohm external terminal for VHF/UHF

Supplied Accessories

Remote Commander RM-Y197
Two Size AA (R6) Batteries

Optional Accessories

AV Cable: VMC-810/820/830 HG
Audio Cable: RKC-515HG
Component Video Cable: VMC-10/30 HG

TV Stand: SU-27HX1 (KV-27HS420/29DRC420 Only)
TV Stand: SU-30HX1 (KV-30HS420 Only)
TV Stand: SU-32HX1 (KV-32HS420 Only)
TV Stand: SU-34HX1 (KV-34HS420 Only)
TV Stand: SU-36HX1 (KV-36HS420 Only)

WARNINGS AND CAUTIONS

CAUTION

Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield, or carbon painted on the CRT, after removing the anode.

WARNING!!

An isolation transformer should be used during any service to avoid possible shock hazard, because of live chassis. The chassis of this receiver is directly connected to the ac power line.

⚠ SAFETY-RELATED COMPONENT WARNING!!

Components identified by shading and ⚠ mark on the schematic diagrams, exploded views, and in the parts list are critical for safe operation. Replace these components with Sony parts whose part numbers appear as shown in this manual or in supplements published by Sony. Circuit adjustments that are critical for safe operation are identified in this manual. Follow these procedures whenever critical components are replaced or improper operation is suspected.

ATTENTION!!

Apres avoir deconnecte le cap de l'anode, court-circuiter l'anode du tube cathodique et celui de l'anode du cap au chassis metallique de l'appareil, ou la couche de carbone peinte sur le tube cathodique ou au blindage du tube cathodique.

Afin d'eviter tout risque d'electrocution provenant d'un châssis sous tension, un transformateur d'isolement doit etre utilisé lors de tout dépannage. Le châssis de ce récepteur est directement raccordé à l'alimentation du secteur.

⚠ ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

Les composants identifies par une trame et par une marque ⚠ sur les schemas de principe, les vues explosees et les listes de pieces sont d'une importance critique pour la securite du fonctionnement. Ne les remplacer que par des composants Sony dont le numero de piece est indique dans le present manuel ou dans des supplements publies par Sony. Les reglages de circuit dont l'importance est critique pour la securite du fonctionnement sont identifies dans le present manuel. Suivre ces procedures lors de chaque remplacement de composants critiques, ou lorsqu'un mauvais fonctionnement suspecte.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splashes and bridges.

2. Check the interboard wiring to ensure that no wires are “pinched” or touching high-wattage resistors.

3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.

4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.

5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.

6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.

7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.

8. Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

Leakage Test

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manµFacturers’ instructions to use these instructions.

2. A battery-operated AC milliampmeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low voltage scale. The Simpson’s 250 and Sanwa SH-63TRD are examples of passive VOMs that are suitable. Nearly all battery-operated digital multimeters that have a 2 VAC range are suitable (see Figure A).

How to Find a Good Earth Ground

A cold-water pipe is a guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms.

If a cold-water pipe is not accessible, connect a 60- to 100-watt trouble-light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side on the line; the lamp should light at normal brilliance if the screw is at ground potential (see Figure B).

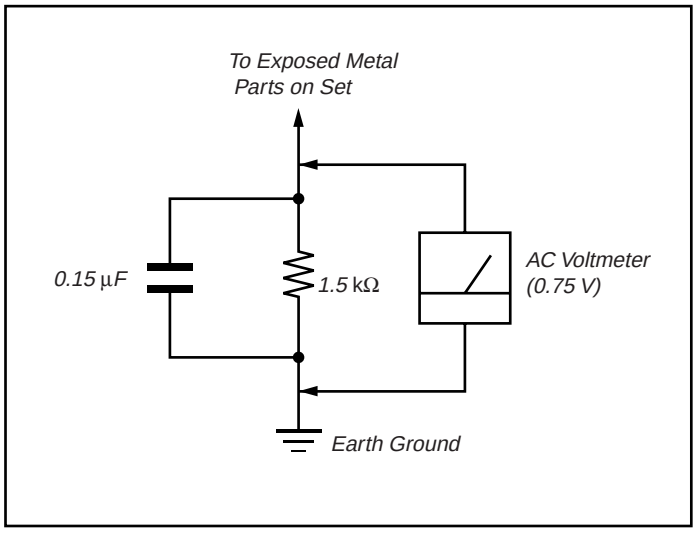


Figure A. Using an AC voltmeter to check AC leakage.

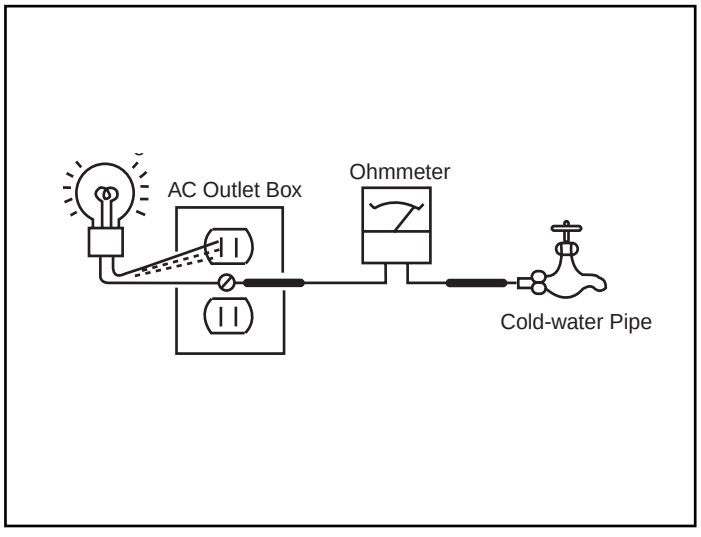


Figure B. Checking for earth ground.

SELF-DIAGNOSTIC FUNCTION

Self Diagnosis Supported model

The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/TIMER LED will automatically begin to flash. The number of times the LED flashes translates to a probable source of the problem. A definition of the STANDBY/TIMER LED flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the Remote Commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

Diagnostic Test Indicators

When an error occurs, the STANDBY/TIMER LED will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the LED will identify the first of the problem areas.

Results for all of the following diagnostic items are displayed on screen. If the screen displays a "0", an error has occurred.

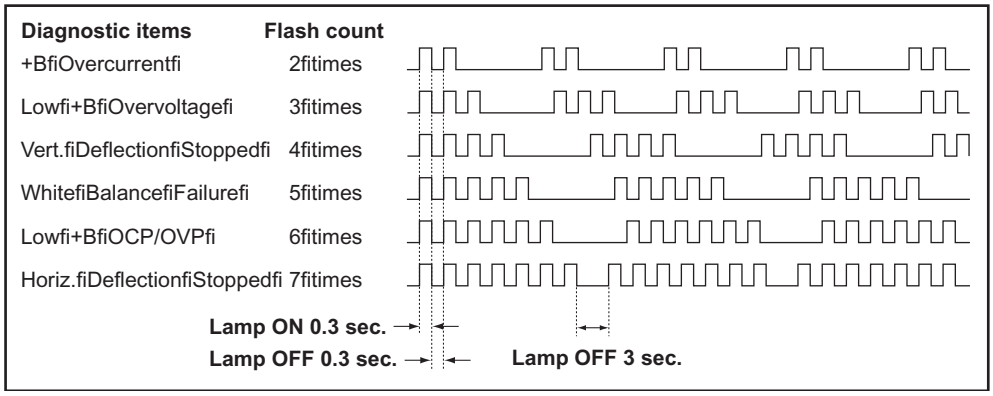
Diagnostic Item	No. of times STANDBY / TIMER lamp flashes	Display Result	Probable Cause Location	Detected Symptoms
Power does not turn on	Does not light	_____	• Power cord is not plugged in. • Fuse is burned out (F501). (AY Board)	• Power does not come on. • No power is supplied to the TV. • AC Power supply is faulty.
+B Overcurrent (OCP)*	2 times	2:0 or 2:1	• H.OUT (Q5030) is shorted. (DZ Board) • +B PWM (Q5003) is shorted. (DZ Board)	• Power does not come on. • Load on power line shorted.
Low +B Overvoltage (OVP)	3 times	3:0 or 3:1	• IC6505 is faulty. (DZ Board)	• Has entered standby mode.
Vertical Deflection Stopped	4 times	4:0 or 4:1	• 15V is not supplied. (DZ Board) • IC5004 is faulty. (DZ Board)	• Has entered standby mode after Horizontal raster. • Vertical deflection pulse is stopped. • Power line is shorted or power supply is stopped.
White Balance Failure (not balanced)	5 times	5:0 or 5:1	• Video OUT (IC9001-IC9003) is faulty. (CH, Board) • CRT drive (IC2801) is faulty. (BY Brd.) • G2 is improperly adjusted.**	• No raster is generated. • CRT cathode current detection reference pulse output is small.
LOW +B OCP/OVP (overcurrent/overvoltage)***	6 times	6:0 or 6:1	• +5 line is overloaded. (AY, BY, MY Boards) • +5 line is shorted. (AY, BY, MY Brds.) • IC504 is faulty. (AY Board)	• No picture
Horizontal Deflection Stopped	7 times	7:0 or 7:1		• No picture

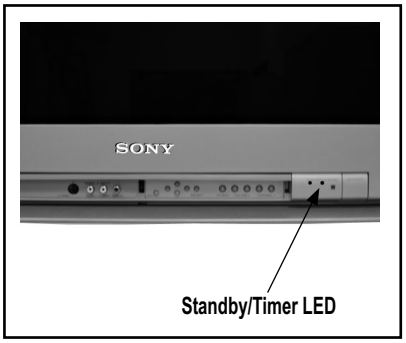
* If a +B overcurrent is detected, stoppage of the vertical deflection is detected simultaneously. The symptom that is diagnosed first by the microcontroller is displayed on the screen.

** Refer to Screen (G2) in Section 2-5 of this manual.

*** If STANDBY/STEREO LED flashes six (6) times, unplug the unit and wait 10 seconds before performing the adjustment.

Display of Standby/Timer LED Flash Count





* One flash count is not used for self-diagnostic.

Stopping the Standby/Timer LED Flash

Turn off the power switch on the TV main unit or unplug the power cord from the outlet to stop the STANDBY/TIMER LAMP from flashing.

Self-Diagnostic Screen Display

For errors with symptoms such as “power sometimes shuts off” or “screen sometimes goes out” that cannot be confirmed, it is possible to bring up past occurrences of failure on the screen for confirmation.

To Bring Up Screen Test

In standby mode, press buttons on the Remote Commander sequentially, in rapid succession, as shown below:

DISPLAY ➡ Channel 5 ➡ Sound volume - ➡ Power ON.

SELF DIAGNOSIS	
2: +B OCP	0
3: +B OVP	0
4: VSTOP	0
5: AKB	1
6: LOWB	0
7: H-STOP	0
101: WDT	24

Numeral “0” means that no fault was detected.

Numeral “1” means a fault was detected one time only.

Handling of Self-Diagnostic Screen Display

Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen during repairs. When you have completed the repairs, clear the result display to “0”.

Unless the result display is cleared to “0”, the self-diagnostic function will not be able to detect subsequent faults after completion of the repairs.

Clearing the Result Display

To clear the result display to “0”, press buttons on the Remote Commander sequentially when the diagnostic screen is displayed, as shown below:

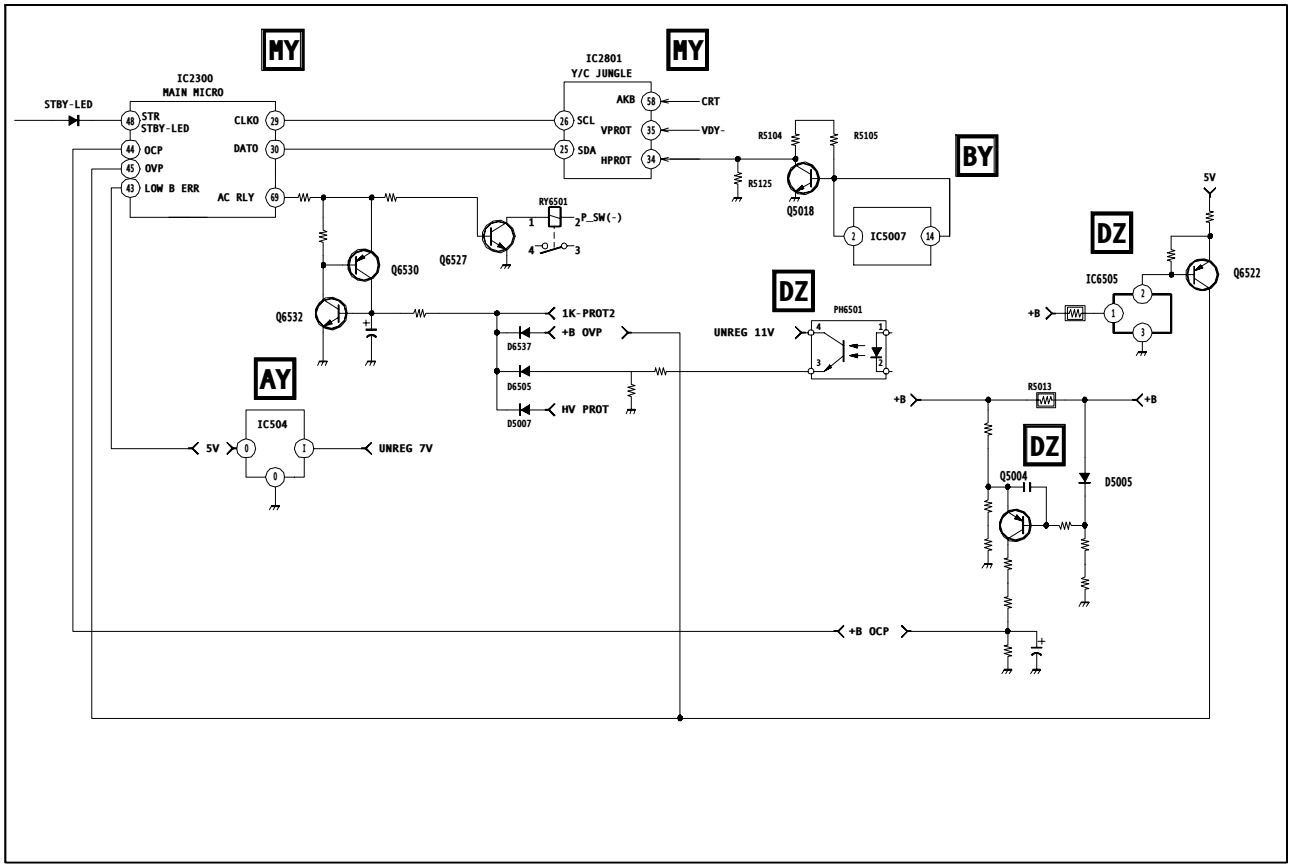
NOTE: This will also reset all user functions (including auto programming and picture settings)

Channel 8 ➡ ENTER

Quitting the Self-Diagnostic Screen

To quit the entire self-diagnostic screen, turn off the power switch on the Remote Commander or the main unit.

Self-Diagnostic Circuit



+B overcurrent (OCP)
Occurs when excessive current flows through R5013. The increase in voltage across R5013 causes the output of Q5004 to go high, and this high signal goes to the micro.

+B overvoltage (OVP)
IC6505 detects +B OVP condition and turns on Q6522. This sends a high signal to the micro and also shuts down the AC relay.

V-STOP
Occurs when an absence of the vertical deflection pulse is detected by pin 24 of IC2801 (BY Board). Power supply will shut down when waveform interval exceeds 2 seconds.

White Balance Failure
If the RGB levels* do not balance within 2 seconds after the power is turned on, this error will be detected by IC2801. TV will stay on, but there will be no picture.

*(Refers to the RGB levels of the AKB detection Ref pulse that detects 1K).

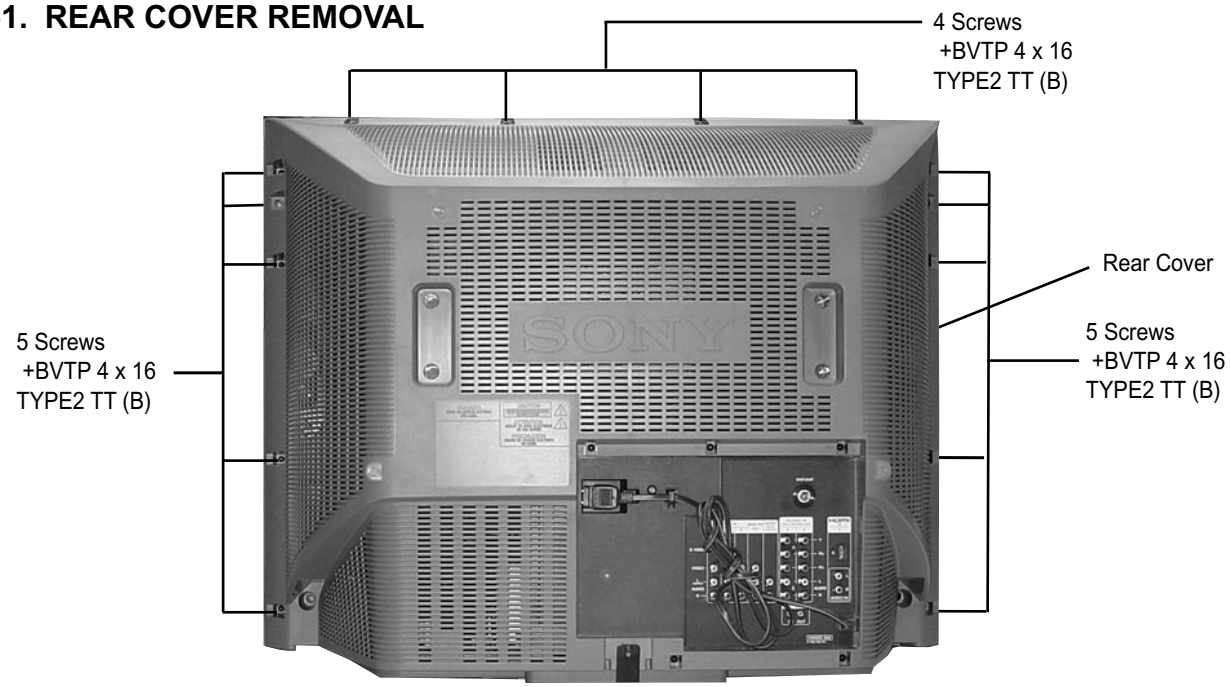
Low B OCP/OVP
Occurs when set 5V is out.

Horizontal Deflection Stopped
Occurs when either:

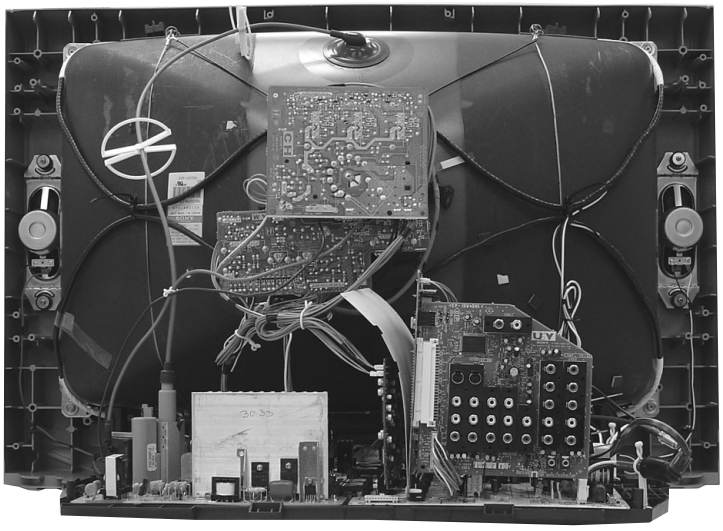
1) a +B overcurrent is detected (IC5007), or
2) overheating is detected (Thermistor TH5002).

SECTION 1: DISASSEMBLY

1-1. REAR COVER REMOVAL

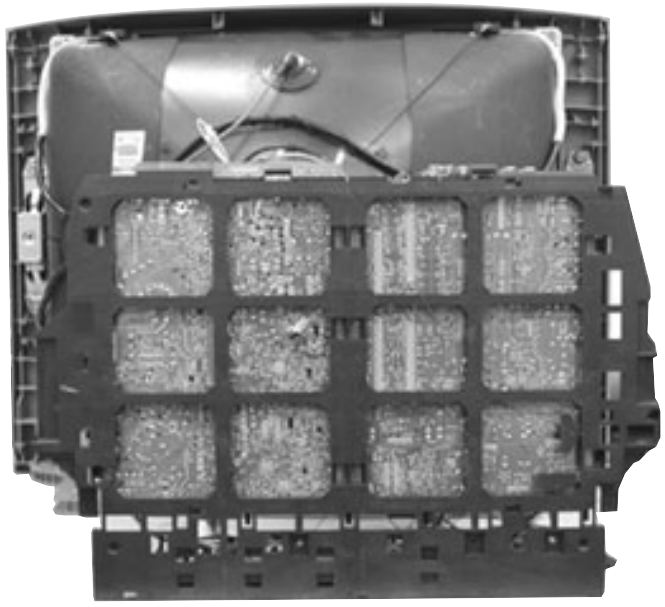


1-2. CHASSIS ASSEMBLY REMOVAL



1. Lift lever up on the right and left sides of the chassis bracket and gently pull the chassis assembly away from the bezel.
2. Pull up and rotate both the AY and DZ Boards in order to service the unit.

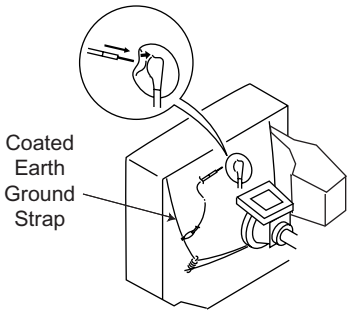
1-3. SERVICE POSITION

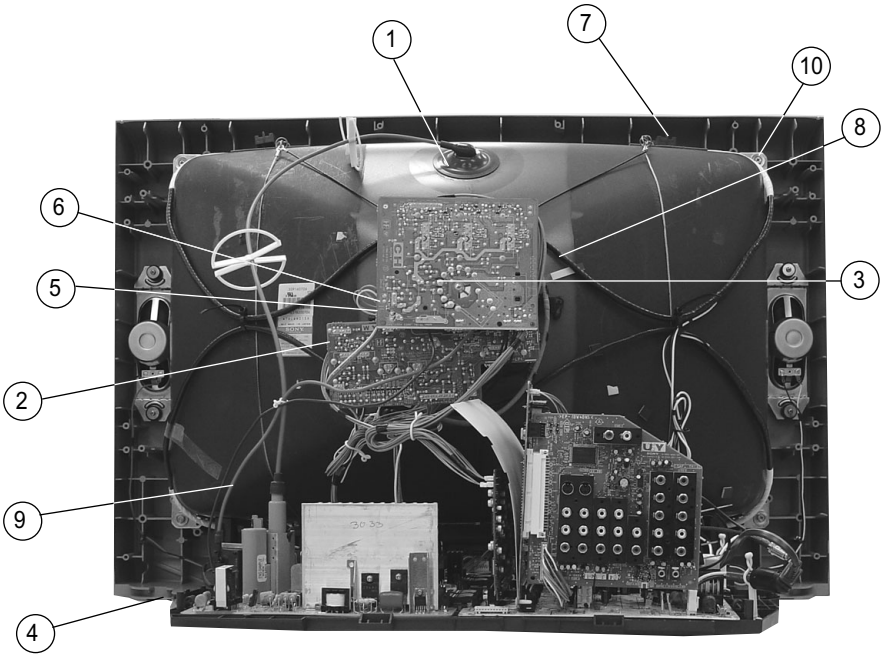


1. **CAUTION!** - Heat sink on IC5004 is -15V. Care must be taken not to allow heat sink to touch any other components.
2. Lift lever up on the right and left sides of the chassis bracket and gently pull the chassis assembly away from the bezel.
3. Pull up and rotate both the AY and DZ Boards in order to service the unit.

1-4. PICTURE TUBE REMOVAL

WARNING: BEFORE REMOVING THE ANODE CAP
High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT before attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.





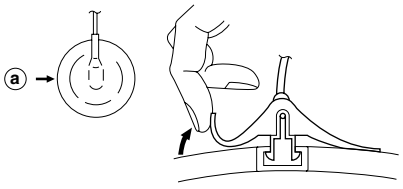
1. Discharge the anode of the CRT and remove the anode cap.
2. Unplug all interconnecting leads from the deflection yoke, neck assembly, degaussing coils and CRT grounding strap.
3. Remove the CH Board from the CRT.
4. Remove the chassis assembly.
5. Loosen the neck assembly fixing screw and remove.
6. Loosen the deflection yoke fixing screw and remove.
7. Place the set with the CRT face down on a cushion and remove the degaussing coil holders.
8. Remove the degaussing coils.
9. Remove the CRT grounding strap and spring tension devices.
10. Unscrew the four CRT fixing screws [located on each CRT corner] and remove the CRT [Take care not to handle the CRT by the neck].

ANODE CAP REMOVAL PROCEDURE

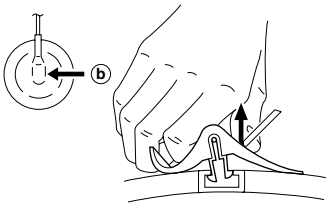
WARNING: High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT before attempting to remove the anode cap. After removing the anode cap, short circuit to either the metal chassis, CRT shield, or carbon painted on the CRT.

NOTE: After removing the anode cap, short circuit the anode of the picture tube and the anode cap to either the metal chassis, CRT shield or carbon painted on the CRT.

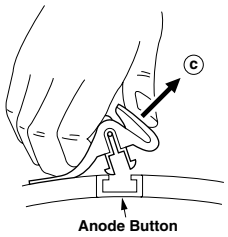
REMOVAL PROCEDURES



Turn up one side of the rubber cap in the direction indicated by arrow a .



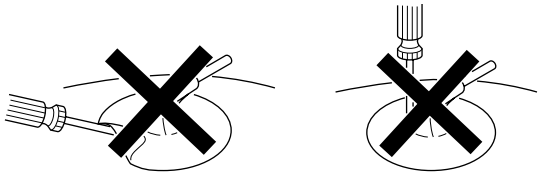
Use your thumb to pull the rubber cap firmly in the direction indicated by arrow b .



When one side of the rubber cap separates from the anode button, the anode cap can be removed by turning the rubber cap and pulling it in the direction of arrow c .

HOW TO HANDLE AN ANODE CAP

1. Do not use sharp objects which may cause damage to the surface of the anode cap.
2. To avoid damaging the anode cap, do not squeeze the rubber covering too hard. A material fitting called a shatter-hook terminal is built into the rubber.
3. Do not force turn the foot of the rubber cover. This may cause the shatter-hook terminal to protrude and damage the rubber.



SECTION 2: SET-UP ADJUSTMENTS

The following adjustments should be made when a complete realignment is required or a new picture tube is installed.

These adjustments should be performed with rated power supply voltage unless otherwise noted.

The controls and switch should be set as follows unless otherwise noted:

VIDEO MODE: STANDARD (RESET)

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. Focus
4. Screen (G2)
5. White Balance

Test Equipment Required:

1. Color Bar Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital Multimeter

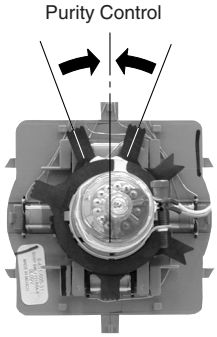
2-1. BEAM LANDING

Preparation:

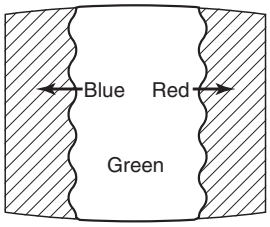
- Use cross hatch signal to rough adjust focus, G2 and then input a white pattern signal.
- Face the picture tube in an East or West direction to reduce the influence of geomagnetism.
- Confirm data in service mode to match with CRT screen size.
  - CXA2170D-4
  - CXA8070 (Should be set to default) - or unplug CRT from DY.
  - VCEN, VPIN, HTPZ, PPHA, VANG, LANG, VBOW, LBOW (Should be set to default value).

NOTE: Do not use the hand degausser; it magnetizes the CRT .

1. Input white pattern from pattern generator. Set the PICTURE control to maximum, and the BRIGHTNESS control to standard.
2. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown below:



3. Input a green pattern from the pattern generator.
4. Move the deflection yoke backwards, (See Figure 1) and adjust with the purity control so that green is in the center and red and blue are even on both sides.



5. Move the deflection yoke forward, and adjust so that the entire screen becomes green.

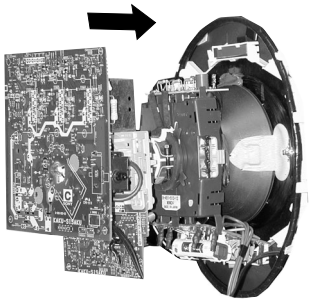
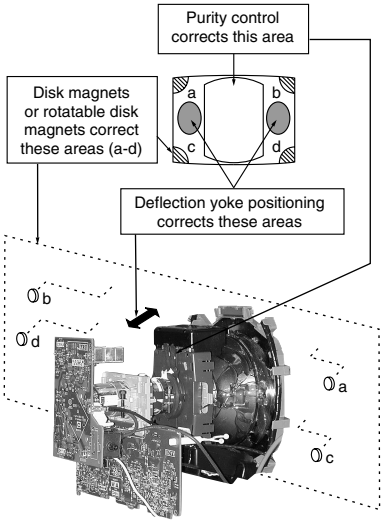


Figure 1

6. Switch over the raster signal to red and blue and confirm the condition.
7. When the position of the deflection yoke is determined, tighten it with the deflection yoke mounting screw.
8. If landing at the corner is not right, adjust it by using the disk magnets.



2-2. V-PIN AND V-CEN ADJUSTMENT

Preparation:
- Input a cross hatch pattern signal.
- Set Video Mode to: Standard (Reset)
- For all 4X3 CRT, VPIN data has separate register for full and V-compress. Adjust both modes if needed.

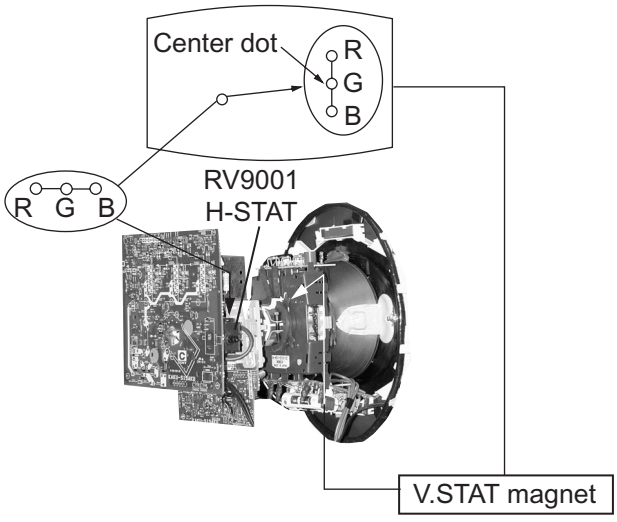
1. Adjust service mode CXA2170D-1 05 V-CEN so that the top pin and bottom pin are symmetrical from top to bottom.
2. Adjust service mode CXA2170D-1 06 V-PIN so that the top pin and bottom pin are symmetrical from top to bottom.
3. Horizontal lines should be straight from left to right. Check landing for side effect.

2-3. CONVERGENCE

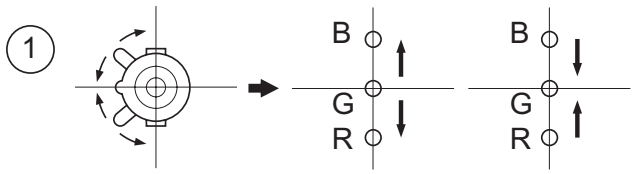
Preparation:
- Set the CONTRAST and BRIGHTNESS control to standard (reset).
- Input a cross hatch pattern signal.

2-3.1. VERTICAL AND HORIZONTAL STATIC CONVERGENCE

1. Disconnect the dynamic convergence before adjusting static convergence (CN903), except for minor touch-up.
2. Adjust H.STAT convergence, RV9001, to converge red, green, and blue dots in the center of the screen.
3. Connect dynamic convergence back.
4. Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen.



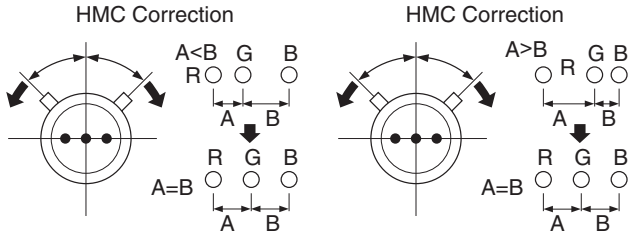
5. Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.

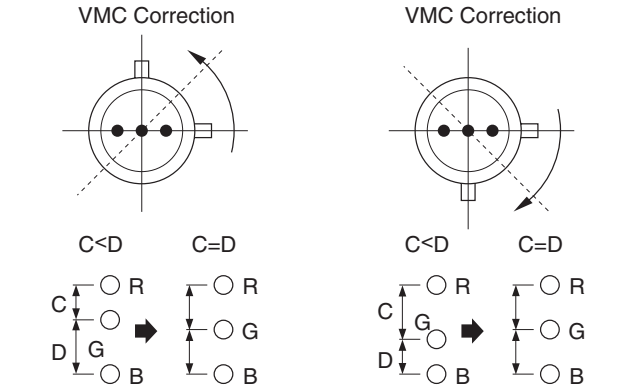


2-3.2. OPERATION OF BMC (HEXAPOLE) MAGNET

The respective dot positions result from moving each magnet interact. Perform the following adjustments while tracking.

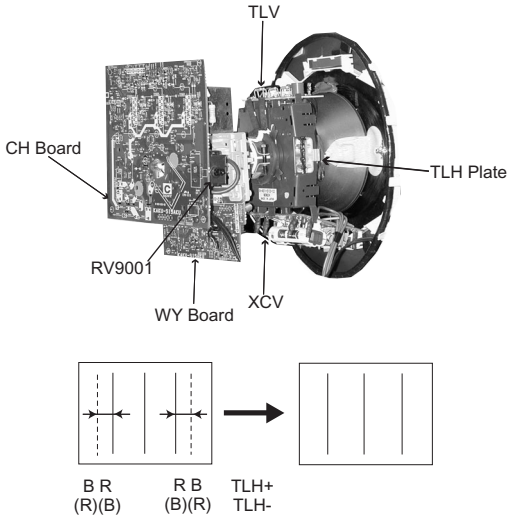
1. Use the BMC tabs to adjust the red, green and blue dots so that they line up at the center of the screen (move the dots in a horizontal direction).





2-3.3. TLH PLATE ADJUSTMENT

Preparation:
- Input a cross hatch pattern signal.
- Adjust unbalanced horizontal convergence of red and blue dots by adjusting the TLH Plate on the deflection yoke.

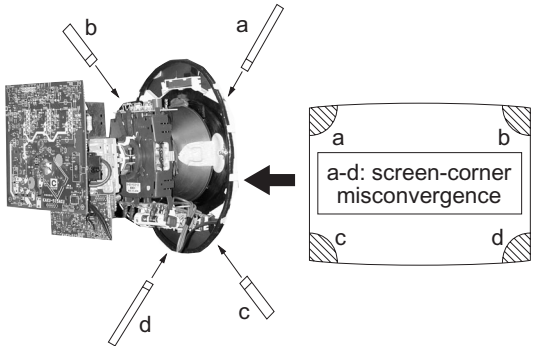


1. Adjust XCV core to balance X axis.
2. Adjust the vertical red and blue convergence with V.TILT (TLV VR).
   Note: Perform adjustments while tracking Item 1.

2-3.4. SCREEN-CORNER CONVERGENCE

Preparation:
- Input a cross hatch pattern signal.

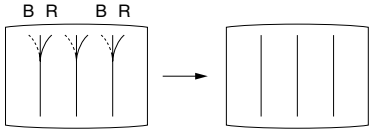
1. Affix a permalloy assembly corresponding to the misconverged areas.



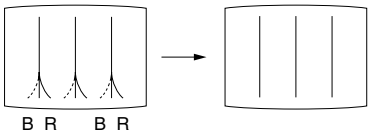
2-3.5. DYNAMIC CONVERGENCE ADJUSTMENTS

- Set dynamic convergence using the following service mode adjustment data.
- Only H-component can be corrected, for vertical component use permalloy to compensate.

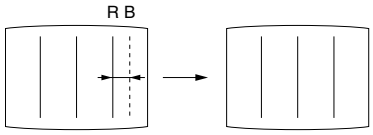
0. YBWU (Upper Y-BOW)



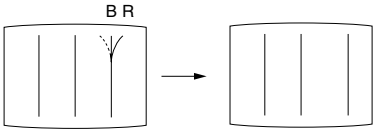
1. YBWL (Lower Y BOW)



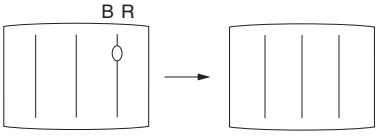
2. RSAP (Right H AMP)



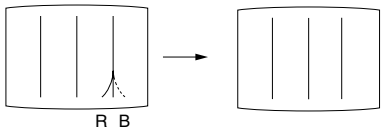
3. RUBW (Right Upper BOW)



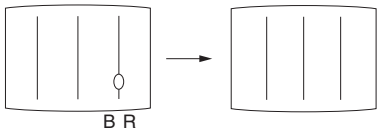
4. RUMB (Right Upper Middle BOW)



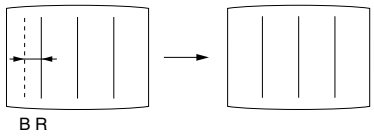
5. RLBW (Right Lower BOW)



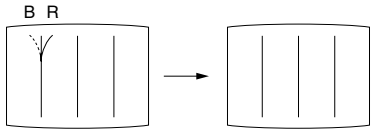
6. RLMB (Right Lower Middle BOW)



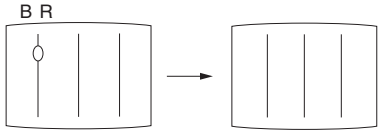
7. LSAP (Left H AMP)



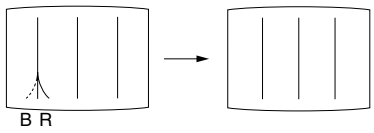
8. LUBW (Left Upper BOW)



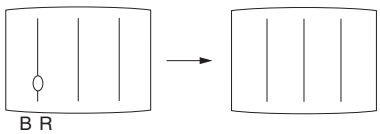
9. LUMB (Left Upper Middle BOW)



10. LLBW (Left Lower BOW)



11. LLMB (Left Lower Middle BOW)



12. CADJ Fix 29

2-4. FOCUS ADJUSTMENT

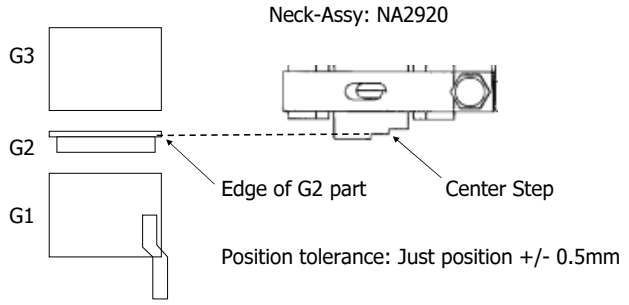
Confirm neck assembly Z axis position. (See Figure 1)

1. Input a dot signal.
2. Set Video Mode to STANDARD.
3. Adjust focus VR clockwise (DE-Focus) to confirm the dot's shape. Center should be oval with left and right sides balanced.
4. Input a HD monoscope signal.
5. Confirm center focus with focus VR.

KV-27/29/30 HS420

CRT: 29RSN/32RVE (NON-Super-Fine Pitch)

Neck Assy:NA2920 (VA-Type, Square pin assignment, VPIN harness)



KV-32/34/36 HS420

CRT: 34RSN/36RV2/38RSN (NON-super-fine pitch and round fannel)

Neck Assy:NA328 (VA-type, square pin assignment, VPIN harness)

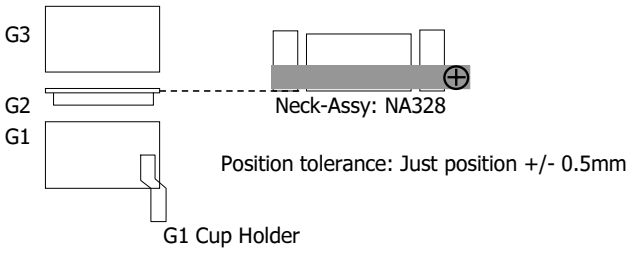
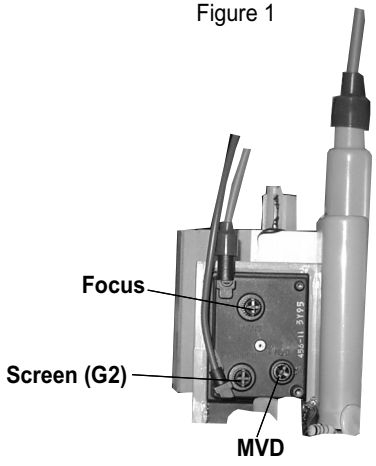
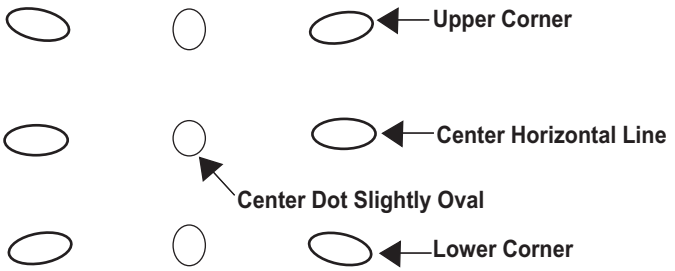


Figure 1



DQP Dot Pattern



NOTE: Changing neck assembly position will affect corner convergence.

2-4.1. DYNAMIC FOCUS/DYNAMIC QUADRAPOLE DATA

Normally, no adjustments are necessary for these systems. If for some reason the data is lost, use the data from Table 1 on Page 24:

Write the data from any non-vertically compressed mode, then use the CPY1 function (CXA2170D-4 Item 6) to copy the data to the vertical compressed modes. V-compressed data is identical to non-v-compressed data. Service personnel with a trained eye can adjust the DF or DQP registers to adjust DF phase (Item 7) or DQP phase (Item 8), respectively, to balance left and right focus. Refrain from adjusting more than 5 steps from table data below. Further adjustment indicates a circuit problem -- troubleshoot to cause. Be sure that Neck Assembly is in the proper location. Always mark position before moving or replacing neck assembly.

(See Section 2-4 Figure 1 - before changing DF/DQP data or troubleshooting circuit when DF/DQP is suspect.)

Procedure to adjust or check:

1. Input a cross hatch signal.
2. Short Q8018 B-E to disable DF – Markings are on the circuit board. Circuit connection changes should always be done with the power off. Caution: Q8018 heatsink is live and peak voltage is 250V.
3. Defocus or overfocus to adjust DQP phase. Adjust the data (CXA2170-D4 item 8) to balance left and right vertical line width.
4. Once DQP is balance, remove the short from DF circuit and refocus the set.
5. Adjust DF (CXA2170-D4 item 7) to balance left and right vertical line width.
6. Reconfirm focus performance.

2-5. SCREEN (G2)

1. Input composite white field into Video 1.
2. Set to service mode and adjust as follows:

(Fig. 1) CXA2170P-2 PICO 1-> 0	Opeartion Procedure	Standards	Notes
	1) In Full mode, apply changes in Fig. 1		
	2) Mount G2 adjustment jig. Adjust Cathode voltage if the standard is not met. Standard varies by CRT size.	170 +/- 5 (V_{DC}) 175 +/- 5 (V_{DC})	29RSN, 32RVEN 34RSN, 36RV2, 38RSN
	3) Adjust G2 by Flyback transformer (T8001).		
	4) Return data changes in 1) to original condition.		

2-6. PICTURE QUALITY ADJUSTMENTS

Preparation:
- Set PRO MODE (Reset).

1. Input signal (480i Composite):
   - Color Bar Video 75 IRE (White) 75% modulation 7.5% Set-up.
   - Color Bar RF 75 IRE (White) 75% modulation 7.5% Set-up.

2-6.1. VIDEO INPUT - SUB CONTRAST ADJUSTMENT

Preparation:
- Input a Color Bar signal to VIDEO 1 (75 IRE 75%).
- Set picture mode: Single (Full) (PRO MODE Reset).
- Picture: Max

1. Set to Service Mode and adjust as follows:

2170P-2

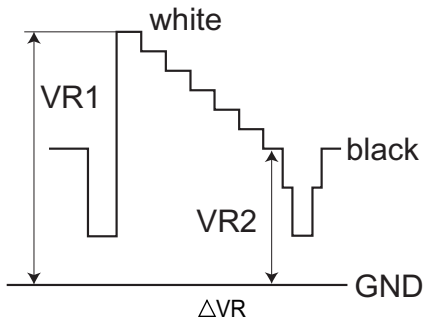
NO.	Name	Control Function	Avg. Data
01	RGBS	R ON	4

2. Connect oscilloscope to Pin 1 of CN9001 (R.DRV) on the CH Board.

3. Adjust contrast according to the service mode item: SPIO.

2103-1

NO.	Name	Control Function
02	SCON	SUB-CONT



(27HS/29HS) = 1.84 ± 0.05 Vpp
(30HS) = 1.92 ± 0.05 Vpp
(32HS) = 1.92 ± 0.05 Vpp
(34HS) = 1.92 ± 0.05 Vpp
(36HS) = 2.00 ± 0.05 Vpp

4. Press MUTING then ENTER to write into memory.

2-6.2. VIDEO INPUT - SUB HUE/SUB COLOR ADJUSTMENT

Preparation:
- Input a Color Bar signal to VIDEO 1 (75 IRE 75%).
- Set picture mode: Single (Full) (PRO MODE Reset).
- Picture: Max

1. Set to Service Mode and adjust as follows:

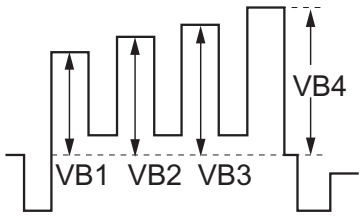
2170P-2

NO.	Name	Control Function	Avg. Data
01	RGBS	R ON	7

2. Connect an oscilloscope to Pin 5 of CN9001 (B. DRV) on the CH Board.
3. Adjust color according to Service Mode for SCLO.
4. Adjust color according to Service Mode for SHUO.

2103-1

NO.	Name	Control Function
03	SCOL	SUB-COL
04	SHUE	SUB-HUE



COLOR: VB1 ≤ VB4 (=20mV ± 200 mV)
HUE: VB2 ≤ VB3 (=20mV ± 200 mV)

5. Press MUTING then ENTER to write into memory.

2-6.3. RF INPUT - SUB CONTRAST ADJUSTMENT

Preparation:
- Input a Color Bar signal to RF (75 IRE 75%).
- Set picture mode: Single (Full) (PRO MODE).
- Picture: Max
- Color: Min

1. Set to Service Mode and adjust as follows:

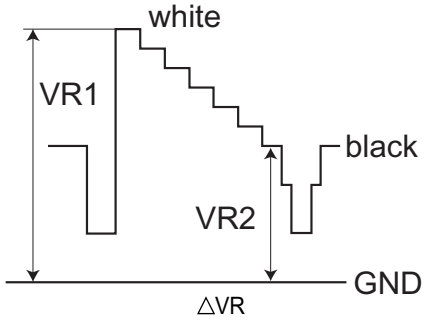
2170P-2

NO.	Name	Control Function	Avg. Data
01	RGBS	R ON	4

2. Connect an oscilloscope to Pin 1 of CN9001 (R. DRV) on the CH Board.
3. Adjust contrast according to service mode for SCON.

2103-1

NO.	Name	Control Function
02	SCON	SUB-CONT



△VR
(27HS/29HS) = 1.84 ± 0.05 Vpp
(30HS) = 1.92 ± 0.05 Vpp
(32HS) = 1.92 ± 0.05 Vpp
(34HS) = 1.92 ± 0.05 Vpp
(36HS) = 2.00 ± 0.05 Vpp

4. Press MUTING then ENTER to write into memory.

2-6.4. RF INPUT - SUB HUE/SUB COLOR ADJUSTMENT

Preparation:

- Input a Color Bar signal to RF (75 IRE 75%).
- Set picture mode: single (FULL) (PRO MODE Reset).
- Picture: Max

1. Set to Service Mode and adjust as follows:

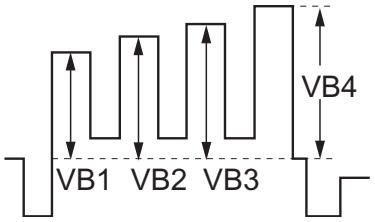
2170P-4

NO.	Name	Control Function	Avg. Data
01	RGBS	R ON	7

2. Connect an oscilloscope to pin 5 of CN9001 (B. DRV) on the CY Board.
3. Adjust color according to Service Mode for SCOL.
4. Adjust color according to Service Mode for SHUE.

2103-1

NO.	Name	Control Function
03	SCOL	SUB COLOR
04	SHUE	SUB HUE



COLOR: VB1 ≤ VB4 (=20mV ± 200 mV)
HUE: VB2 ≤ VB3 (=20mV ± 200 mV)

5. Press MUTING then ENTER to write into memory.

2-7. WHITE BALANCE (CRT) AND SUB BRIGHT ADJUSTMENT

Preparation

- Input an all white 480I (15.734 KHz) signal into the VIDEO 1 input terminal to perform the White Balance (highlight, cut-off) adjustments. The parameters to adjust are in the CXA2170P1 in Service Mode.
- Set Picture Mode: Single (FULL) (POR MODE Reset)
- Picture: Max
- Color: Min

WHITE BALANCE ADJUSTMENT PROCEDURE (Composite White Field Signal into Video 1)

Specification

Old Calibration
Highlight/Cutoff
9300K + 8MPCD
(R/G 1.000, B/G 1.000)

New Calibration
Highlight/Cutoff
10,900K + 2MPCD
(R/G 1.007, B/G 1.139)

WB701 Preset	R/G	B/G
29RSN/29RSEN	.790	.903
32RVE/32RV	.775	.915
34RSN	.689	.883
36RV2	.745	.905
38RSN	.679	.872

Condition

Picture Mode: Single (Full)
Picture Setting:Pro

Color Temp: Neutral

Picture: 63 write to 86h:01h:FFh
Color: 0 write to 86h:03h:00h

Adjustment Registers (Service Mode)	
RDRV (fixed)**	2170P-1-06
GDRV	2170P-1-0
BDRV	2170P-1-08
RCUT fixed)**	2170P-1-09
GCUT	2170P-1-10
BCUT	2170P-1-11

** Data will differ by model

2-7.1. COLOR OFFSET ADJUSTMENT PROCEDURE

Preparation:

- Input an all white (30 IRE) signal to the specified input.
- Adjust the white balance using the specified registers.
- Set picture mode: Single (FULL) (PRO MODE Reset)
- Color: Max

VIDEO 1

CXA2170P1

NO.	Name	Control Function
3	CBOF	CB OFFSET
4	CROF	CR OFFSET

VIDEO 5

CXA2170P1

NO.	Name	Control Function
3	CBOF	CB OFFSET
4	CROF	CR OFFSET

VIDEO 7 - HDMI 480i Signal

CXA2170P1

NO.	Name	Control Function
3	CBOF	CB0F (FROM VIDEO 5) + 3
4	CROF	CR0F (FROM VIDEO 5) - 4

2-8. H RASTER CENTER ADJUSTMENT

Preparation:
- Input a monoscope signal.
- Set to NTSC (DRC) mode.

1. Set to Service Mode and adjust as follows:

CXA2170P-2

NO.	Name	Control Function	Data
05	AGNG	AGING 1, AGING 2	2

CXA2170D-2

NO.	Name	Control Function	Avg. Data
01	HPOS	Horiz Position	34
02	HSIZ	Horiz Size	34

CXA2170D-3

NO.	Name	Control Function	Avg. Data
00	HBLK	Blanking Enable	0

2. Reduce HSIZ to see sides of raster. (See Figure A below)
3. Adjust H-Center with CXA2170D-2.
4. Adjust to the best screen position with H-CENT, then press MUTING then ENTER to write into memory.
5. Restore aging, HSIZ and HBLK to original condition.

Raster Edge Equal:

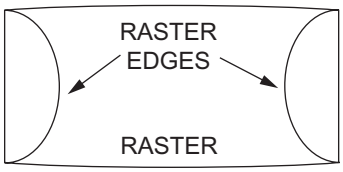


Figure A

2-9. PICTURE DISTORTION ADJUSTMENTS

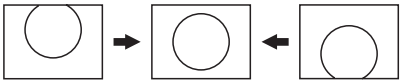
2-9.1. NTSC (DRC) FULL MODE ADJUSTMENT

1. Face the picture tube in an east-west direction. (For best condition.)
2. Complete V-PIN and V-CEN adjustments first (A2170-D1 06 V-PIN, A2170-D1 05 V-CEN).
3. Input a monoscope and crosshatch signal. Adjust the picture distortion with the following service parameters to balance the best condition for these two signals.

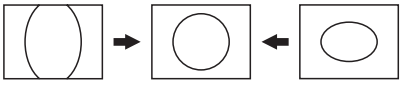
   NOTE: Make sure that the picture size is within specs. Vertical size is 11.8 ± 0.1 sq. and horizontal size is 15.8 ± 0.1 sq.
4. Before changing modes, press MUTING then ENTER to write into memory.

CXA2170D-1

Item 0. VPOS (V-POSITION)



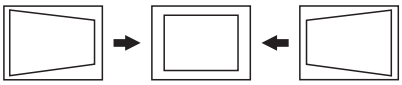
Item 1. VSIZ (V-SIZE)



Item 3. VLIN (V-LINE)

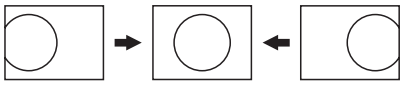
Item 4. VSCO (VS-COR)

Item 9. HTPZ (H-TRAPEZOID)

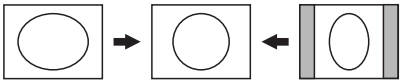


CXA2170D-2

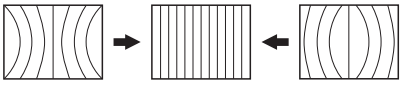
Item 1. HPOS (H-POSITION)



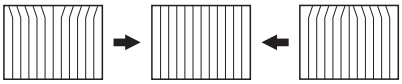
Item 2. HSIZ (H-SIZE)



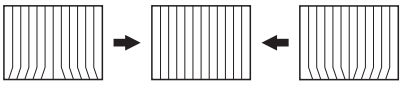
Item 5. PIN (PIN AMP)



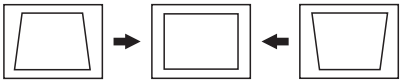
Item 7. UCP (UP COR PIN COR)



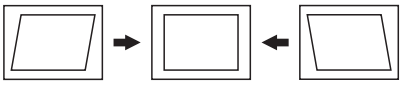
Item 8. LCP (LOW CO PIN COR)



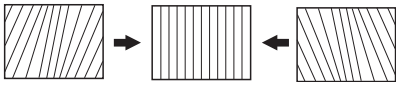
Item 14. PPHA (PIN PHASE)



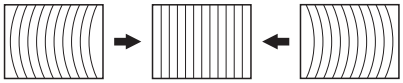
Item 15. VANG (AFC-ANGLE)



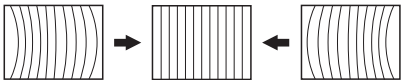
Item 16. LANG (L-ANGLE)



Item 17. VBOW (AFC-BOW)



Item 18. LBOW (L-BOW)



2-9.2. 1080I HD MODE ADJUSTMENT

1. Input a 1080i cross-hatch signal and an HD monoscope signal that contains overscan markers. (From service mode, verify 1080I mode).
2. Adjust the raster position per Section 2-8., only if this procedure was not performed for full mode.
3. Adjust the geometry similar to Full DRC mode. Vertical size is 11.7 ± 0.1 sq. and horizontal size is 15.6 ± 0.1 sq., if monoscope signal is available. Otherwise, set the Vertical size to 91.0 ± 0.6% scan and Horizontal size as 91.0 ± 0.6% scan.
4. Use the following register to adjust the horizontal parameter:

A2150-D2	01	HPOS

NOTE: If necessary, touch up the geometry using the data register listed above for Full mode. Check NTSC full mode for side effect and balance.

5. Before changing modes, press MUTING then ENTER to write into memory.

2-9.3. VERTICAL COMPRESSED MODE CHECK AND CONFIRMATION (FOR 4X3 CRT ONLY)

1. Input a monoscope and crosshatch signal.
2. Check vertical compressed mode.
3. Adjust VPIN if needed.

SECTION 3: SAFETY RELATED ADJUSTMENTS

3-1. PREPARATION BEFORE CONFIRMATION

Standard ..... 135.3 ± 1 VAC
Check Condition:
AC input voltage: 120 (± 2) VAC
Note: If using a stabilized power supply, make sure that the distortion factor is 3% or less.
Setting Mode: ..... Full mode
Signal Input: ..... Cross-hatch of NTSC
Initial Setting: ..... Standard Reset condition
Confirm Point: ..... Across CN5509 PIN 9 for B+ of DZ Board

3-1.1 HOLD-DOWN OPERATION CONFIRMATION

1. Using an external DC power supply, apply 5.3 ± 0.5 Vdc between Pin 2 of CN507 (jig connector) and ground (Pin 8); confirm set goes to hold-down (main power relay click).
2. Remove the external DC power supply.

3-2. B+ MAX CONFIRMATION

Standard 135.3 ± 1 VAC
Check Condition:
AC input voltage: 120 (± 2) VAC
Note: If using a stabilized power supply, make sure that the distortion factor is 3% or less.
Setting Mode: ..... Full mode
Signal Input: ..... Cross-hatch of NTSC
Initial Setting: ..... Standard Reset condition
Confirm Point: ..... Across CN5509 PIN 9 for B+ of DZ Board

3-3. B+ VOLTAGE CHECK

Standard: ..... 135.3 ± 1 VDC
Measurement point:
CN5509 pin (9) for B+ of [DZ] board
Input Video Signal: ..... All Black Signal
Picture level: ..... Picture/Brightness Minimum

3-4. HIGH VOLTAGE (HV) CHECK

Standard: ..... 30.5 ± 0.5 kV
(KV-27HS420/29DRC420/30HS420 only)
Standard: ..... 31.5 ± 0.5 kV
(KV-32HS420/34HS420/36HS420 only)
Measurement point: ..... Anode of CRT
Input Video Signal: ..... All Black Signal
Picture level: ..... Picture/Brightness Minimum

3-5. PREPARATION FOR HV AND IK PROTECTOR CHECK

1. Remove DZ board screws and carefully lift board as necessary to gain access to the bottom of the board.
2. Unsolder CN5001 pin 1 to open ABL connection to AY or AZ board.
   (Alternately, open AY or AZ - DZ connector (CN509-CN5001) and carefully push pin 1 metal tab (ABL) up from the bottom and pull up from the top using long nose pliers and release it from the connector, then close the connector with pin 1 connection now open.)
3. Install jumper wire from MY or MZ board connection CN2304 pin 1 to CN509 pin 1 to inject 5V to ABL line. (Alternately, use STBY 5V, IC501 Pin O on AY or AZ board)
4. Unsolder CN5009 pin 8 (H-prot).
5. Open ABL pin 1 of T8001 (RHT) on DZ board and connect analog current meter.

3-6. HV PROTECTOR CHECK

3-6-1. CUT OFF CONDITION

Input Video Signal: ..... All Black Signal
Picture level: ..... Picture/Brightness Minimum

1. Confirm ABL current which should be approximately 0.160mA.
2. Short across C8002, C8021, and C8052.
3. Turn off the set and install precision VR1 jig (initially set to 100K) to IC8005 pin 1 (It's the unmarked IC8005 pin on PWB A side, neither K nor A.) and GND (C8076 -).
4. Restore power and adjust HV to obtain
   34.4 ± 0.15kV (KV-27HS420/29DRC420/30HS420 only)
   or
   35.2 ± 0.15kV (KV-32HS420/34HS420/36HS420 only)
   by precision VR1 jig.
   Note: If the picture turns bright red or other color and the set shuts down, place a 10 M resistor on the CX board between G2 and E2 pins on the socket. Confirm G2 adjustment before returning set to production.
5. Remove short from C8002 and confirm that hold down activates.
6. Short C8002 again and confirm that HV recovers.
7. Re-adjust HV to obtain
   31.5 ± 0.2 kV (KV-27HS420/29DRC420/30HS420 only)
   or
   32.5 ± 0.2 kV (KV-32HS420/34HS420/36HS420 only)
   by precision VR1 jig.
8. Remove short from C8002 and C8021 and C8052.
9. Confirm that hold down does not activate.

Note: Remove the 10 M resistor , if installed in step D above

3-6-2. HIGH LIGHT CONDITION

Input Video Signal:.....All White Signal
Picture level:.....Picture/Brightness Adjustment

1. Short across C8002, C8021, C8052, C8012, and C8015.
2. Set ABL current to **2.76mA** by adjusting picture and brightness towards max condition.
3. Adjust HV to obtain
   33.6 ± 0.15kV (KV-27HS420/29DRC420/30HS420 only)
   or
   34.5 ± 0.15kV (KV-32HS420/34HS420/36HS420 only)
   by precision RV1 jig.
4 Remove short from C8002 and confirm that hold down activates.
5. Short C8002 again and confirm that HV recovers.
6. Re-adjust HV to obtain
   31.2 ± **0.2 kV** (KV-27HS420/29DRC420/30HS420 only)
   or
   32.2 ± **0.2 kV** (KV-32HS420/34HS420/36HS420 only)
   by precision VR1 jig.
7. Remove shorts from C8002, C8021, and C8052.
8. Confirm that hold down does **not** activate.
9. Remove short from C8012 and C8015.
10. Remove VR1 jig from DZ board

3-7. IK PROTECTOR CHECK

Input Video Signal:.....All White Signal
Picture level:.....Picture/Brightness Adjustment

1. Short across C8015.
2. Set ABL current to 2.76mA by adjusting picture and brightness towards max condition.
3. Confirm that AC Relay shuts off.
4. Remove short from C8015 and Short across C8012.
5. Turn the set off and on to reset AC relay latch.
6. Confirm the voltage at CN5009 pin 8 (H_prot) = 3.6 ± 0.5V.
7. Remove short from C8012.

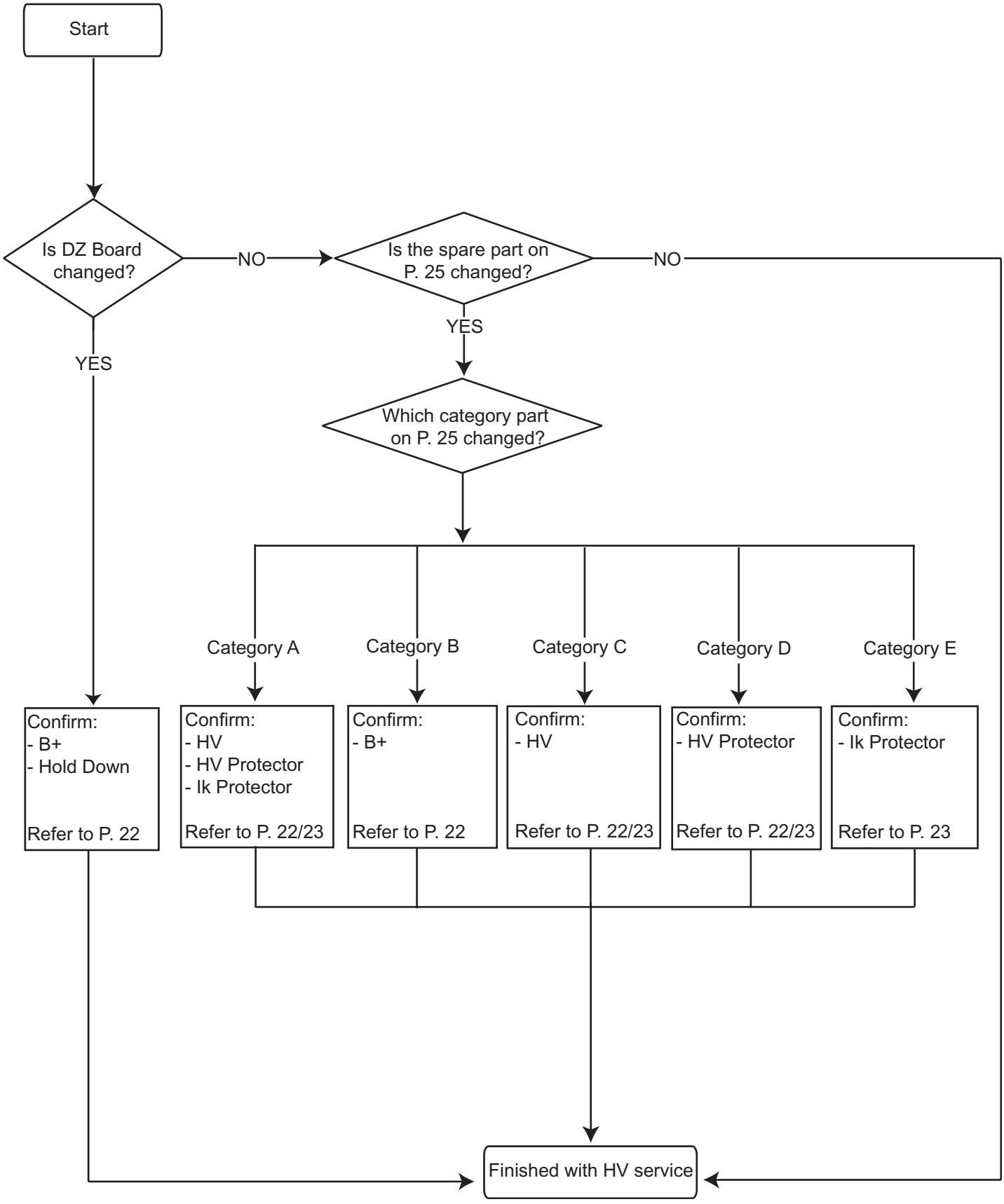
3-8. HOLD DOWN CHECK

1. Using an external DC power supply, apply 5.3 + 0.5 Vdc between Pin 2 of CN507 (jig connector) and ground (Pin 8) on AY or AZ board.
2. Confirm that hold down activates.
3. Remove the external DC power supply.

3-9. RESTORATION

1. Re-solder CN5001 pin 1 and CN5009 pin 8 to restore AY or AZ -DZ connections. (Or as applicable, restore AY or AZ –DZ connector by carefully pressing the tab back into the slot and snapping the connector shut. Be sure the tab is flush and level with the other tabs on the connector.)
2. Remove jumper wire from MY or MZ board connection CN2304 pin 1 to CN509 pin 1.
3. Remove current meter from ABL pin and restore ABL pin connection.
4. Replace all DZ board screws and restore user menu settings to reset condition.

3-10. HV SERVICE FLOWCHART



3-10.1.HV SERVICE FLOWCHART TABLE

Ref. #	Category
T8001	A
R8015	C
R8017	C
R8019	D
R8035	E
R8036	E
R8037	E
R8038	E
R8039	E
R8040	E
R8043	E
R8078	D
R8165	D
IC8005	C
IC8104	D
R8012	C
R8014	C
R8016	D
R8021	C
R8027	E
R8029	E
R8030	E
R8031	E
R8046	D
R8052	D
R8059	C
R8060	C
R8066	C
R8072	D
R8079	D
R8082	E
R6590	B
D8022	D
PH8003	C
Q8007	E
Q8008	E
IC8001	D
IC8002	C
IC8004	C
IC6503	B

SECTION 4: CIRCUIT ADJUSTMENTS

ELECTRICAL ADJUSTMENTS BY REMOTE COMMANDER

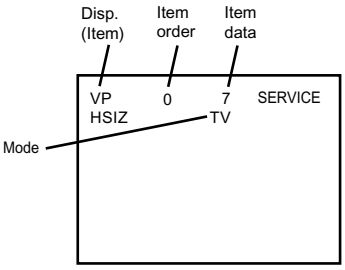
Use the Remote Commander (RM-Y197) to perform the circuit adjustments in this section.

Test Equipment Required: 1. Pattern generator 2. Frequency counter 3. Digital multimeter 4. Audio oscillator

4-1. SETTING SERVICE ADJUSTMENT MODE

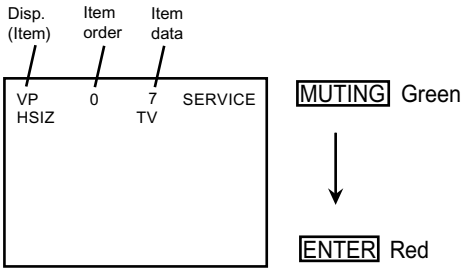
1. Standby mode (Power off).
2. Press the following buttons on the remote commander within a second of each other:
   DISPLAY → Channel 5 → Sound Volume + → Power

4-1.1. SERVICE ADJUSTMENT MODE IN

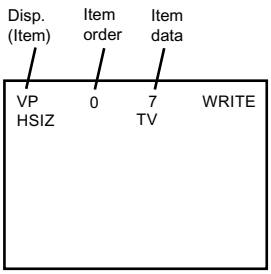


3. The CRT displays the item being adjusted.
4. Press 1 or 2 on the Remote Commander to select the item.
5. Press 3 or 6 on the Remote Commander to change the data.
6. Press MUTING then ENTER to write into memory.

4-1.2. SERVICE ADJUSTMENT MODE MEMORY



1. Press 8 then ENTER on the Remote Commander to initialize.



2. DO NOT turn off set until SERVICE appears.

4-1.3. READING THE MEMORY

1. Enter into Service Mode.
2. Press 0 on the Remote Commander.
3. Press ENTER to read memory.

4-1.4. ADJUSTING THE PICTURE

1. Enter into Service Mode
2. Press 2 or 5 on the remote to select the device item.
3. Press 1 or 4 on the remote to select an item.
4. Press 3 or 6 on the remote to change the data.
5. Press MUTING then ENTER to write into memory.

4-1.5. RESETTING THE DATA

Note: Be careful when using the remote! It will clear and re-initialize ALL NVM data including deflection adjustment data if not reset properly as follows:

4-1.6. RESETTING THE MID NVM DATA

1. Enter into Service Mode.
2. Press 7, then JUMP, and then press ENTER on the remote.

4-1.7. RESETTING THE SYSTEM NVM DATA

1. Enter into Service Mode.
2. Press 7, then 9, and then press ENTER on the remote.

4-1.8. COPY FUNCTION

How to use copy function for DA4 Chassis:

- After writing your adjusted data into NVM press MUTING then ENTER to write the data into memory. You can data by changing copy data from 0 to 1 then press MUTING then ENTER again.

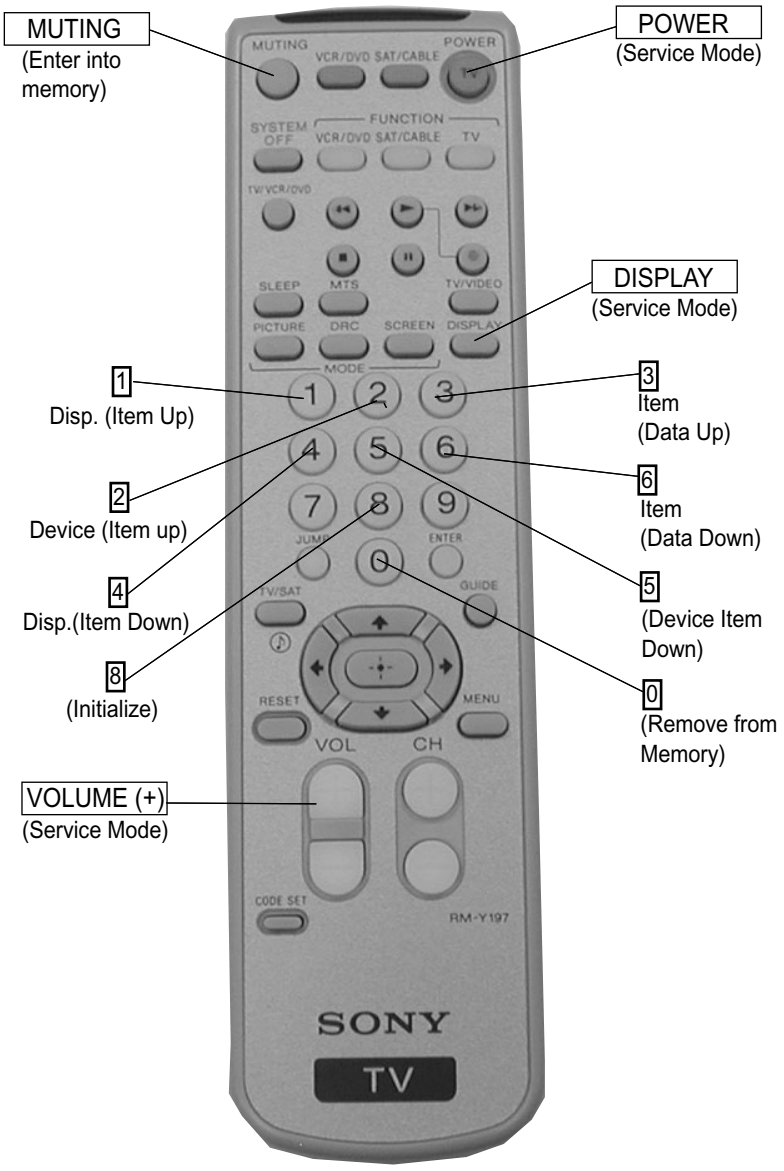
WARNING: DO NOT copy data before writing your corrected data in NVM. If data is copied before writing corrected data, old data will be copied.

- CPY1: DF/DQP DATA (CXA2170D-4 Item 6)
- CPY2: CONVERGENCE DATA (D-CONV Item 13)

4-2. MEMORY WRITE CONFIRMATION METHOD

1. After adjustment, pull out the plug from the AC outlet, then replace the plug in the AC outlet again.
2. Turn the power switch ON and set to Service Mode.
3. Call the adjusted items again to confirm they were adjusted.

4-3. REMOTE ADJUSTMENT BUTTONS AND INDICATORS



RM-Y197

4-4. SERVICE DATA

*NOT be memorized

Category	No	Item	Range								
VERSION	0	VER*	0,1	0 *							
	1	DMY1*	0-255	0							
3D-COMB	0	NRMD*	0-3	0 *							
	1	CLKS	0-3	1							
	2	NSDS*	0-3	0 *							
	3	MSS*	0-3	0 *							
	4	KILS*	0-3	1 *							
	5	FRZE*	0,1	0 *							
	6	EXCS	0-3	1							
	7	CDL	0-7	4							
				NRMD=0	NRMD=1	NRMD=2	NRMD=3				
	8	DYCO	0-15	2	2	2	2				
	9	DYGA	0-15	10	10	10	10				
	10	DCCO	0-15	5	5	5	5				
	11	DCGA	0-15	5	5	5	5				
	12	WSC	0-2	1							
	13	WSS	0,1	0							
				Vivid	Standard	Movie	Pro				
	14	VAPG	0-7	4	2	2	0				
	15	VAPI	0-31	4	4	4	0				
	16	TEST*	0,1	0 *							
				Vivid		Standard		Movie		Pro		Twin
				RF	CV/YC	RF	CV/YC	RF	CV/YC	RF	CV/YC	
	17	YPFT	0-3	3	3	3	3	3	3	3	3	3
	18	YPFG	0-15	9	5	7	5	5	6	5	5	6
	19	SEDC	0,1	0								
	20	SEDY	0,1	1								
	21	YHCO	0-3	1								
	22	YHCG	0,1	0								
	23	SYSP	0-3	0								
	24	TES2*	0-7	0 *								

Note:
Item * uses the fixed setting in normal TV operations.
{Its setting can be changed for testing in Servcie mode only. But the change will not be memorized after leaving Service mode.}

*NOT be memorized

Category	No	Item	Range	V5/V6 HDMI	Others
2103-1	0	YLEV	0-62	34	20
	1	CLEV	0-63	40	17

			RF	CV/YC
2	SCON	0-15	9	9
3	SCOL	0-15	2	2
4	SHUE	0-15	11	5
5	YDLY	0-3	0	0

			RF	CV/YC	V5/V6	HDMI	MemoryStick
6	SHAP	0-15	6	8	4	8	8
7	SHF0	0-3	0	0	3	0	0
8	PRE0	0-3	3	3	3	3	3

9	BPF0	0-3	3
10	BPFQ	0-3	2

			RF	CV/YC
11	BPSW	0,1	1	0

12	TRAP	0,1	0
13	LPF	0,1	1

			RF	CV/YC	Others
14	AFCG	0,1	1	0	0
15	CDMD	0-3	3	3	3
16	SSMD	0-3	0	0	0

			RF	CV/YC	V5/V6	HDMI	MemoryStick
17	HMSK	0,1	0	1	1	0	0

18	HALI	0,1	0

			RF	CV/YC	V5/V6	HDMI	MemoryStick
19	PPHA	0-15	7	7	7	7	7

			V5/V6	MemoryStick	Others
20	CBO1	0-63	36	32	34
21	CRO1	0-63	38	32	32

*NOT be memorized

Category	No	Item	Range	V5/V6 HDMI	Others
2103-1	22	CBO2	0-63	32	
	23	CRO2	0-63	32	

			Single	BLK=0	BLK=1	BLK=2	BLK=3
24	ATPD	0-3	0	1	1	2	1
25	DCTR	0-3	0	2	1	3	2

Notes:
Settings applied to CXA2103 (M&S), if applied.
Settings also based on 2170P-4/BLK data

Category	No	Item	Range	DRC		HDMI	Memory Stick	Comp / PT
				CV/YC	480i			
2170P-1	0	YOSW	0,1	1	0	1	0	0
	1	TCOF*	0,1	0 *				

			DRC	V5/V6				HDMI				Memory Stick	PT
			RF/CV/YC	480i	480p	720p	1080i	480i	480p/VGA	720p	1080i		
2	YOF	0-15	0	7	7	7	7	7	0	7	7	7	7
3	CBOF	0-63	31	31	46	51	49	31	40	31	31	38	38
4	CROF	0-63	31	31	45	51	48	31	40	31	31	34	34

			ColorTemp	Color Temp	
			Neutral	Cool	Warm
5	SBRT	0-63	31		
6	RDRV	0-63	45		
7	GDRV	0-63	35		
8	BDRV	0-63	34		
9	RCUT	0-63	41		
10	GCUT	0-63	32		
11	BCUT	0-63	35		
12	WBSW	0,1		0	Service Data *
13	SBOF	0-15		7	7
14	RDOF	0-63		31	31
15	GDOF	0-63		31	34
16	BDOF	0-63		34	45
17	RCOF	0-63		31	31
18	GCOF	0-63		31	37
19	BCOF	0-63		34	63

Note:
The WBSW setting in Warm can be memorized in NVM.

*NOT be memorized

Category	No	Item	Range	DRC CV/YC	DRC 480i	HDMI	Memory Stick	Comp / PT
2170P-1	20	DCOL	0-3	3				

Category	No	Item	Range	Blanking On	Blanking Off	Power Off
2170P-2	0	PICO*	0,1	1 *	1 *	0 *
	1	RGBS*	0-7	0 *	7 *	0 *
	2	BLKB	0-3	3		
	3	RGBL	0-3	2		
	4	YLMT	0-3	3		

				Aging On	Aging Off
	5	AGNG*	0-3	2 *	0 *
	6	AKBO*	0,1	0 *	

				Other	PT
	7	CLPP	0-3	3	3
	8	CLPG	0,1	0	0
	9	CLPS	0,1	0	0
	10	PPAD	0-7	3	3
	11	SYNP	0,1	0	0
	12	HVBT	0,1	0	

Category	No	Item	Range		RF	CV/YC	V5/V6 480i	V5/V6 480p	V5/V6 1080i	V5/V6 720p	HDMI 480i	HDMI 480p	HDMI VGA	HDMI 1080i	HDMI 720p	Memory Stick Slide Show / Still Picture	Memory Stick Menu Index	Twin
2170P-3	0	SYSM	0-3		1	1	1	1	3	3	1	1	1	3	3	1	1	2
	1	VMLV*	0-15		7 *													
	2	VMCR	0-3		1	0	0	0	0	0	0	0	0	0	0	0	0	3
	3	VMLM	0-3	Vivid	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	4	VMF0	0-3		1	1	1	1	0	0	1	1	1	0	0	1	1	0
	5	VMDL	0-15		5	5	5	5	13	13	5	5	5	13	13	1	1	10
	6	SHOF	0-3		2	2	2	1	1	1	2	1	0	1	1	2	2	2
	7	SHF0	0,1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	PROV	0-3		0	3	2	0	3	3	2	0	0	3	3	3	3	3
	9	F1LV	0-3		1	0	1	0	0	1	1	0	1	0	1	0	0	0

*NOT be memorized

Category	No	Item	Range		RF	CV/YC	V5/V6				HDMI					Memory Stick		Twin
							480i	480p	1080i	720p	480i	480p	VGA	1080i	720p	Slide Show / Still Picture	Menu Index	
2170P-3	10	LTLV	0-3	Vivid	2	3	3	1	3	3	3	3	3	3	3	3	3	3
	11	LTMD	0,1		1	1	1	0	1	0	1	0	1	1	0	0	0	1
	12	CTLV	0-3		0	0	0	0	3	3	0	0	0	3	3	0	0	0
	13	UBOF	0-7		0	0	0	1	1	1	0	0	0	0	0	2	2	1
	14	UCOF	0-7		2	2	2	2	2	2	2	2	2	2	2	1	1	2
	15	UHOF	0-3		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16	MIDE	0-63		7	11	15	19	23	27	31	35	44	39	43	37	37	56
	0	SYSM	0-3		1	1	1	1	3	3	1	1	1	3	3	1	1	2
	1	VMLV*	0-15		7 *													
	2	VMCR	0-3		1	0	0	0	0	0	0	0	0	0	0	0	0	3
	3	VMLM	0-3		3	3	3	3	3	3	3	3	3	3	3	3	3	3
	4	VMF0	0-3		1	1	1	1	0	0	1	1	1	0	0	1	1	0
	5	VMDL	0-15		5	5	5	5	13	13	5	5	5	13	13	1	1	10
	6	SHOF	0-3		3	3	2	0	1	1	2	0	0	1	1	3	3	2
	7	SHF0	0, 1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	PROV	0-3		0	3	2	0	3	3	2	0	0	3	3	3	3	3
	9	F1LV	0-3		0	0	1	1	0	0	1	1	1	0	0	0	0	0
	10	LTLV	0-3		2	2	2	3	3	3	2	3	3	3	3	2	2	3
	11	LTMD	0,1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
	12	CTLV	0-3		0	0	0	0	3	3	0	0	0	3	3	0	0	0
	13	UBOF	0-7		2	2	2	0	2	2	0	0	0	0	0	4	4	1
	14	UCOF	0-7		1	1	2	2	1	2	2	2	2	1	2	0	0	0
	15	UHOF	0-3		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16	MIDE	0-63		5	10	14	18	22	26	30	34	44	38	42	36	36	55

*NOT be memorized

Category	No	Item	Range		RF	CV/YC	V5/V6				HDMI					Memory Stick		Twin
							480i	480p	1080i	720p	480i	480p	VGA	1080i	720p	Slide Show / Still Picture	Menu Index	
2170P-3	0	SYSM	0-3	Movie	1	1	1	1	3	3	1	1	1	3	3	1	1	2
	1	VMLV*	0-15		7 *													
	2	VMCR	0-3		1	0	0	0	0	0	0	0	0	0	0	0	0	3
	3	VMLM	0-3		3	3	3	3	3	3	3	3	3	3	3	3	3	3
	4	VMF0	0-3		1	1	1	1	0	0	1	1	1	0	0	1	1	0
	5	VMDL	0-15		5	5	5	5	13	13	5	5	5	13	13	1	1	10
	6	SHOF	0-3		1	1	1	1	1	1	1	1	0	1	1	1	1	1
	7	SHF0	0,1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	PROV	0-3		0	3	2	1	3	3	2	1	0	3	3	3	3	3
	9	F1LV	0-3		0	0	0	0	0	0	0	0	1	0	0	0	0	0
	10	LTLV	0-3		1	1	1	2	1	1	1	2	3	1	1	1	1	1
	11	LTMD	0,1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
	12	CTLV	0-3		0	0	0	0	2	2	0	0	0	2	2	0	0	0
	13	UBOF	0-7		0	0	0	0	0	0	0	0	0	0	0	2	2	0
	14	UCOF	0-7		0	0	0	0	0	0	0	0	2	0	0	0	0	0
	15	UHOF	0-3		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16	MIDE	0-63		3	9	13	17	21	25	29	33	44	37	41	35	35	54
					RF	CV/YC	V5/V6				HDMI					Memory Stick		Twin
							480i	480p	1080i	720p	480i	480p	VGA	1080i	720p	Slide Show/ Still Picture	Menu Index	
	0	SYSM	0-3	Pro	1	1	2	1	3	3	2	1	1	3	3	2	2	2
	1	VMLV*	0-15		7 *													
	2	VMCR	0-3		1	0	0	0	0	0	0	0	0	0	0	0	0	3
	3	VMLM	0-3		3	3	3	3	3	3	3	3	3	3	3	3	3	3
	4	VMF0	0-3		1	1	0	0	0	0	0	0	1	0	0	0	0	0
	5	VMDL	0-15		5	5	8	5	13	13	8	5	5	13	13	2	2	10
	6	SHOF	0-3		1	2	2	0	2	1	2	0	0	2	1	0	0	1
	7	SHF0	0,1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	PROV	0-3		0	2	3	1	3	3	3	1	0	3	3	3	3	3
	9	F1LV	0-3		0	0	0	0	0	0	0	0	1	0	0	0	0	0
	10	LTLV	0-3		0	0	0	0	0	0	0	0	3	0	0	0	0	0
	11	LTMD	0,1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
	12	CTLV	0-3		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13	UBOF	0-7		2	2	2	1	1	1	0	0	0	0	0	2	2	2
	14	UCOF	0-7		0	0	0	0	0	0	0	0	2	0	0	0	0	0
	15	UHOF	0-3		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16	MIDE	0-63		0	8	12	16	20	24	28	32	44	36	40	33	33	53

*NOT be memorized

Category	No	Item	Range	Vivid	Standard	Movie	Pro
2170P-3	17	VM	0-3	3	3	1	0
	18	VMH	0-15	15	15	12	12
	19	VMM	0-15	10	10	8	8
	20	VML	0-15	6	6	4	4

			HDMI
			VGA
21	VGAP	0-15	5
22	VGAS	0-15	0
23	VGAB	0-15	0
24	VGAC	0-15	0
25	VGAV	0-15	5

2170P-4				Memory Stick	Other
	0	YCON	0,1	0	1

			DRC	VDO (V5&6)	VDO (HDMI)	Memory Stick	PT
1	SPIC	0-15	7	7	7	7	7
2	SCOL	0-63	31	31	31	31	31
3	SHUE	0-63	31	31	31	31	31

Note:
PT = Pass Through (By pass MID)

4	SPIO	0-15	7
5	SCLO	0-15	7
6	SHUO	0-15	7

			Vivid	Standard	Movie	Pro
7	UPIC	0-63	63	48	39	31
8	UBRT	0-63	31	31	31	31
9	UCOL	0-63	35	31	31	31
10	UHUE	0-63	31	31	31	31
11	USHP	0-63	24	29	31	31
12	UTMP	0-3	2	1	0	1

*NOT be memorized

Category	No	Item	Range	Memory Stick	Other
2170P-4	13	RYR	0-15	8	
	14	RYB	0-15	9	
	15	GYR	0-15	9	
	16	GYB	0-15	6	

No	Item	Range		RF	CV/YC	V5/V6				HDMI					Memory Stick		Twin
						480i	480p	1080i	720p	480i	480p	VGA	1080i	720p	Slide Show/ Still Picture	Menu Index	
17	GAMM	0-3	Vivid	3	2	3	3	3	3	2	3	3	3	3	3	3	3
			Standard	1	1	1	1	1	1	1	1	1	1	1	2	2	2
			Movie	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Pro	0	0	0	0	0	0	0	0	0	0	0	0	0	0

No	Item	Range	GAMM=0	GAMM=1	GAMM=2	GAMM=3	Note:
18	GAMS	0-15	0	8	8	8	Settings based on GAMM data
19	GAMR	0-15	0	4	8	12	
20	GAMG	0-15	0	4	8	12	
21	GAMB	0-15	0	4	8	12	

No	Item	Range		RF	CV/YC	V5/V6				HDMI					Memory Stick		Twin
						480i	480p	1080i	720p	480i	480p	VGA	1080i	720p	Slide Show/ Still Picture	Menu Index	
22	BLK	0-3	Vivid	3	3	3	3	3	3	3	3	3	3	3	3	3	3
			Standard	2	2	2	2	2	2	2	2	2	2	2	2	2	2
			Movie	0	0	1	0	1	0	1	0	0	1	0	0	0	0
			Pro	0	0	0	0	0	0	0	0	0	0	0	0	0	0

No	Item	Range	BLK=0	BLK=1	BLK=2	BLK=3	Note:
23	DCTR	0-15	0	3	7	12	Settings based on BLK data
24	APED	0-3	0	0	1	2	
25	DSBO	0-15	7	7	7	7	

No	Item	Range	
26	IDSW*	0-7	0*

No	Item	Range	BLK=0	BLK=1	BLK=2	BLK=3	Note:
27	ABLM	0-3	0	1	0	1	Settings based on

*NOT be memorized

Category	No	Item	Range	Single: Others	Single: MemoryStick 1080Vcomp VGA	Others	Note
2170P-4	28	ABLT	0-15	0	9	9	
	29	SPOF	0-31	0			
				BLK=0	BLK=1	BLK=2	BLK=3	**Note**:
	30	DPSQ	0,1	1	1	1	1	Settings based on BLK data
	31	LRGB	0-15	3				
2170D-1	0	VPOS	0-63	31				
	1	VSIZ	0-63	30				
				1080Full	Others	**Note**:
	2	VSZO	0-63	0	0	Used for PJ only
				WideZoom	Others	
	3	VLIN	0-15	8	8	
	4	VSCO	0-15	10	9	
	5	VCEN	0-63	31		
				1080Vcomp 480Vcomp	Others	
	6	VPIN	0-63	15	15	
	7	MVPN	0-3	0		
	8	NSCO	0-63	31		
	9	HTPZ	0-31	15		
	10	MHTZ	0-3	0		
				WideZoom	Zoom	Others	
	11	ZOOM	0,1	1	1	0	
				WideZoom	Zoom	480Full	1080Full	1080Vcomp	480Vcomp	**Note**:
	12	APSW	0,1	1	1	1	0	0	1	Data variation for 4x3 // 16x9 models
	13	ASPT	0-63	22	43	47 // 3	43 // 0	47	47 // 3	
	14	SCRL	0-63	31	31	31	31	31	31	

*NOT be memorized

Category	No	Item	Range	WideZoom	Others			
2170D-1	15	UVLN	0-15	4	0			
	16	LVLN	0-15	4	0			
2170D-2	0	HCNT	0-63	31				
				1080Full 1080Vcomp	Others			
	1	HPOS	0-63	31	31			
				WideZoom	Others			
	2	HSIZ	0-63	49	40			
	3	SLIN	0-15	10	4			
	4	MPIN	0-15	11	10			
				WideZoom	Others	1080i		
	5	PIN	0-63	40	31	31		
				WideZoom	Zoom	480Full	1080Full	1080Vcomp 480Vcomp
	6	PINO	0-15	7	7	7	7	7
				WideZoom	Others	1080i		
	7	UCP	0-63	31	35	35		
	8	LCP	0-63	31	35	35		
				32HS420		Other HS Models		
				Others	1080i	Others	1080i	
	9	UXCG	0-3	1	1	0	0	
	10	LXCG	0-3	1	1	0	0	
	11	UXCP	0-3	2	2			
	12	LXCP	0-3	2	2			
	13	XCPP	0,1	0	0			
				WideZoom	Others			
	14	PPHA	0-63	20	20			
	15	VANG	0-63	31				
	16	LANG	0-63	31				
	17	VBOW	0-63	31				
	18	LBOW	0-63	31				

*NOT be memorized

Category	No	Item	Range							
2170D-3	0	HBLK	0,1	1						
	1	LBLK	0-63	1080Full 1080Vcomp: 50	Others: 51					
	2	RBLK	0-63	31	27					
	3	VBLK	0,1	WideZoom: 0	Zoom: 0	480Full 1080Full: 1	480Vcomp 1080Vcomp: 1			
	4	TBLK	0-15	WideZoom: 12	Zoom: 7	480Full: 2	1080Full: 4	1080Vcomp: 10	480Vcomp: 8 // 2	**Note**: Data variation for 4x3 // 16x9 models
	5	BBLK	0-15	15	7	8	6	14	13 // 8	
	6	AFCM	0-3	1080Full 1080Vcomp: 2	Others: 3					
	7	JUMP	0,1	1080Vcomp 480Vcomp: 1 // 0	Others: 0	**Note**: Data variation for 4x3 // 16x9 models				
	8	VDJP	0,1	WideZoom: 1	Zoom: 1	480Vcomp 480Full: 0	1080Full: 1	1080Vcomp: 1		
	9	VDST	0,1	1080Vcomp 1080Full: 0	Others: 0					
	10	AKBT	0-31	WideZoom: 15	Zoom: 15	480Full 480Vcomp: 20	1080Full: 16	1080Vcomp: 16		

*NOT be memorized

Category	No	Item	Range	27HS420 29DRC420		32HS420		36HS420		30HS420		34HS420	
				1080Vcomp 480Vcomp	Others	1080Vcomp 480Vcomp	Others	1080Vcomp 480Vcomp	Others	1080Vcomp 480Vcomp	Others	1080Vcomp 480Vcomp	Others
2170D-4	0	QPAM	0-63	36	36	25	25	22	22	33	33	45	45
	1	QPAV	0-63	44	44	40	40	40	40	46	46	47	47
	2	QPAP	0-15	6	6	6	6	6	6	6	6	6	6
	3	QPDC	0-63	22	22	17	17	17	17	29	29	42	42
	4	QPDV	0-63	52	52	52	52	52	52	59	59	63	63
	5	QPDP	0-15	6	6	6	6	6	6	6	6	6	6
	6	CPY1*	0,1	0 *	**Note:** Copy1 makes the data copying from one mode to all other modes.								

				27HS420 29DRC420	32HS420	36HS420	30HS420	34HS420
	7	DF	0-63	36	36	36	40	36
	8	DQP	0-63	37	37	37	38	37

2170D-5	0	VFRQ	0-3	1
	1	VON*	0,1	1*
	2	EWDC	0,1	0
	3	MS15	0,1	0
	4	HFRQ	0-255	80
	5	HFRX	0-63	25
	6	VMPS	0,1	0
	7	INTR	0,1	0
	8	VLNL	0-3	0
	9	VLNH	0-255	0
	10	AGCS	0,1	0

*NOT be memorized

Category	No	Item	Range	
D-CONV (CXA8070)	0	YBWU	0-63	31
	1	YBWL	0-63	31
	2	RSAP	0-63	31
	3	RUMB	0-63	31
	4	RUBW	0-63	31
	5	RLMB	0-63	31
	6	RLBW	0-63	31
	7	LSAP	0-63	31
	8	LUMB	0-63	31
	9	LUBW	0-63	31
	10	LLMB	0-63	31
	11	LLBW	0-63	31
	12	CADJ	0-63	29
	13	HVCA	0-63	55

CXA2171				V5/V6		HDMI / Tiny Micro $6D_00	
				720p 1080i	Others	Bit6: 709 = 1	Bit6: 709 = 0
	0	MTRX*	0-3	1 *	0 *	1 *	0 *

			PT	Others	Note:
1	GAIN	0-3	7	7	PT = Pass Through

			V5	V6	HDMI	Others
			480i&480p 720p/1080i No Sync	480i/480p 720p/1080i No Sync	480i/480p 720p/1080i No Sync	
2	FIXS*	0-3	0	0	0	0

			PT	Others
3	CBGN	0-15	7	7
4	CRGN	0-15	8	8
5	YGN	0-15	8	8

6	VTC	0-3	0

			Tristate=1	Tristate=0
7	HTC*	0,1	0 *	1 *

8	HWID	0-3	1
9	HSEP	0,1	1

*NOT be memorized

CXA2171				V5/V6		HDMI / Tiny Micro $6D_00	
				V5/V6 HDMI 1080i	Others		
	10	HMSK*	0,1	0 *	1 *		

			V5	V6	HDMI	Others
			480i/480p 720p/1080i No Sync	480i/480p 720p/1080i No Sync		
11	FRGB*	0,1	0	0	0	0

MID1									
	0	DHPH	0-255	109					
	1	DVPH	0-63	20					
	2	DHAR	0-255	240					
	3	DVAR	0-255	135					
	4	DHPW	0-63	55					
	5	DVPW	0-7	5					

			Single		Twin	Freeze	Favorites	Index
			480i	Others				
6	DYCD	0-63	3	0	2	2	2	2

			Table-0	Table-1	Table-2	Table-3
7	DYSD	0-7	7	4	2	1

			Single				Favorites	Index
			VGA		Others		VGA	VGA
			Normal	Others	Normal	Others		
8	MDHP	0-255	174	72	156	0	40	41

			Single			Favorites	Index
			480i/480p	VGA	Others	VGA	VGA
9	MDVP	0-255	30	66	0	34	86

			Single				Favorites	Index
			VGA		Others		VGA	VGA
			Normal	Others	Normal	Others		
10	MDHS	0-255	162	204	162	240	155	119

*NOT be memorized

Category	No	Item	Range	Single			Favorites	Index
				480i/480p	VGA	Others	VGA	VGA
MID1	11	MDVS	0-255	120	102	135	103	77

				Twin Freeze	Favorites	Index
	12	MLHP	0-255	36	31	31
	13	MLVP	0-255	8	30	30

				Favorites
	14	SDHP	0-255	167
	15	SDVP	0-255	5
	16	SDHS	0-255	115
	17	SDVS	0-255	79
	18	PDHP	0-255	0
	19	PDVP	0-255	0
	20	PDHS	0-255	0
	21	PDVS	0-255	0

				1080iSingle	Others
	22	DPSW	0,1	0	0
	23	MDLO	0-63	12	

				Single			Others
				Normal	Others	MemoryStick	
	24	BCOL	0-15	1	1	0	1
	25	DYSS	0-3	1			

				Index
	26	OSDH	0-63	32
	27	OSDV	0-63	16

*NOT be memorized

Category	No	Item	Range
MID2	0	DRHP	0-255
	1	DRHS	0-255
	2	DRVP	0-63
	3	DRVS	0-255

Single

V5/V6-480i		YC		HDMI-480i	
Normal	Others	Normal	Others	Normal	Others
153	120	154	117	153	120
162	180	162	180	162	180
37	37	37	37	37	37
120	120	120	120	120	120

No	Item	Range
0	DRHP	0-255
1	DRHS	0-255
2	DRVP	0-63
3	DRVS	0-255

Twin-Left

480i	YC
146	148
164	164
57	57
110	110

No	Item	Range
0	DRHP	0-255
1	DRHS	0-255
2	DRVP	0-63
3	DRVS	0-255

Twin-Right

YC
153
164
57
110

No	Item	Range
0	DRHP	0-255
1	DRHS	0-255
2	DRVP	0-63
3	DRVS	0-255

Freeze

480i	YC
153	153
162	162
57	57
110	110

No	Item	Range
0	DRHP	0-255
1	DRHS	0-255
2	DRVP	0-63
3	DRVS	0-255

Favorites (Main)

480i		YC	
Full	Vcomp	Full	Vcomp
140	140	140	140
165	165	165	165
37	57	37	57
120	110	120	110

No	Item	Range
0	DRHP	0-255
1	DRHS	0-255
2	DRVP	0-63
3	DRVS	0-255

Favorites (Sub)

YC
153
171
28
118

*NOT be memorized

MID2

No	Item	Range
0	DRHP	0-255
1	DRHS	0-255
2	DRVP	0-63
3	DRVS	0-255

Index (Main)

	480i		YC	
	Full	Vcomp	Full	Vcomp
0	140	140	140	140
1	165	165	165	155
2	37	57	37	57
3	120	110	120	110

Index (Sub)

	YC
0	158
1	162
2	57
3	110

MID3

No	Item	Range
0	VDHP	0-255
1	VDHS	0-255
2	VDVE	0-63
3	VDVS	0-255

Single

	V5/V6						HDMI							
	1080i	720p	480p		480i		1080i	720p	480p		480i		VGA	
			Normal	Others	Normal	Others			Normal	Others	Normal	Others	Normal	Others
0	107	137	200	152	76	56	107	137	200	152	76	56	170	170
1	240	161	216	240	162	180	240	161	216	240	162	180	229	229
2	19	24	37	37	17	17	19	24	37	37	17	17	34	34
3	135	180	120	120	60	60	135	180	120	120	60	60	120	120

Twin-Left

	1080i	720p	480p	480i	VGA
0	141	163	192	71	213
1	221	147	219	164	209
2	43	54	57	27	45
3	123	165	110	55	110

Twin-Right

	YC
0	73
1	164
2	27
3	55

Freeze

	1080i	720p	480p	480i	VGA
0	151	169	200	74	212
1	218	145	216	162	208
2	43	54	57	27	45
3	123	165	110	55	110

Category	No	Item	Range	*NOT be memorized
MID3				

			Favorites (Main)	1080i		720p	480p		480i		VGA	
				Full	Vcomp		Full	Vcomp	Full	Vcomp	Full	Vcomp
0	VDHP	0-255		136	136	158	184	184	68	68	169	169
1	VDHS	0-255		222	222	148	220	220	165	165	229	229
2	VDVE	0-63		43	43	55	37	57	17	27	34	34
3	VDVS	0-255		123	123	165	120	110	60	55	120	120

			Favorites (Sub)	YC
0	VDHP	0-255		75
1	VDHS	0-255		171
2	VDVE	0-63		13
3	VDVS	0-255		59

			Index (Main)	1080i		720p	480p		480i		VGA	
				Full	Vcomp		Full	Vcomp	Full	Vcomp	Full	Vcomp
0	VDHP	0-255		136	136	158	184	184	68	68	169	169
1	VDHS	0-255		222	222	148	220	220	165	165	229	229
2	VDVE	0-63		43	43	55	37	57	17	27	34	34
3	VDVS	0-255		123	123	165	120	110	60	55	120	120

			Index (Sub)	YC
0	VDHP	0-255		76
1	VDHS	0-255		162
2	VDVE	0-63		27
3	VDVS	0-255		55

			V5/V6					HDMI				
			YC	480i	1080i	720p	480p	480i	1080i	720p	480p	VGA
4	VDVO	0-3	0	0	0	0	0	0	0	0	0	0
5	VCPO	0-255	42	42	72	88	122	42	72	88	122	122
6	VCWD	0-7	1	1	3	3	3	1	3	3	3	3
7	VYCD	0-63	0	0	0	0	0	0	0	0	0	0
8	VSTP	0-255	62	62	136	183	126	62	136	183	126	129
9	VSTT	0-15	0	0	0	0	0	0	0	0	0	0
10	VHSC	0-255	130	130	130	130	130	130	130	130	130	130
11	VFRV	0,1	0	0	0	0	0	0	0	0	0	0

Category	No	Item	Range	*NOT be memorized															
MID5	0	POP	0-63	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	1	MHLY	0-3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2	MHLC	0-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	MVLY	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	MVLC	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	MHYR	0-3	0	1	1	1	2	3	3	2	0	0	2	1	0	0	1	1
	6	MHYL	0-3	0	1	1	1	1	2	2	2	0	1	2	1	0	0	1	2
	7	MHYE	0-7	0	2	2	5	6	7	7	7	0	2	4	7	0	0	7	7
	8	MHYO	0,1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	0	0
	9	MHCR	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10	MHCL	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11	MHCE	0-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12	MHCO	0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	13	MVYR	0-3	0	0	0	0	1	2	2	2	0	1	1	1	0	0	1	2
	14	MVYL	0-3	0	0	0	0	1	1	1	1	0	1	1	1	0	0	1	2
	15	MVYE	0-7	0	0	0	0	1	1	1	1	0	3	3	3	0	0	4	3
	16	MVCR	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	17	MVCL	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18	MVCE	0-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	POP	0-63	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	1	MHLY	0-3	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1
	2	MHLC	0-3	3	3	3	3	0	0	0	0	0	0	0	0	3	3	3	3
	3	MVLY	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	MVLC	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	MHYR	0-3	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1
	6	MHYL	0-3	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	2
	7	MHYE	0-7	2	2	2	7	0	4	7	7	2	4	7	7	0	0	7	7
	8	MHYO	0,1	1	1	1	1	0	0	0	1	0	0	0	0	1	1	0	0
	9	MHCR	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	10	MHCL	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	11	MHCE	0-7	0	0	0	0	0	0	4	4	0	0	4	4	0	0	0	0
	12	MHCO	0-1	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	13	MVYR	0-3	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	2
	14	MVYL	0-3	0	1	1	1	0	0	1	1	0	0	1	1	0	0	1	2
	15	MVYE	0-7	0	1	1	4	0	0	4	4	0	0	4	4	0	0	4	3
	16	MVCR	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	17	MVCL	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	18	MVCE	0-7	0	0	0	0	0	0	4	4	0	0	4	4	0	0	0	0

*NOT be memorized

Category	No	Item	Range	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
MID5	0	POP	0-63																
	1	MHLY	0-3	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0
	2	MHLC	0-3	3	3	3	3	0	0	0	0	0	0	0	0	3	0	0	0
	3	MVLY	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	MVLC	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	MHYR	0-3	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0
	6	MHYL	0-3	1	1	1	1	0	1	1	1	1	1	1	1	1	0	0	0
	7	MHYE	0-7	2	2	2	7	0	4	7	7	2	4	7	7	2	0	0	0
	8	MHYO	0,1	1	1	1	1	0	0	0	1	0	0	0	0	1	0	0	0
	9	MHCR	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	10	MHCL	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	11	MHCE	0-7	0	0	0	0	0	0	4	4	0	0	4	4	0	0	0	0
	12	MHCO	0-1	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	13	MVYR	0-3	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0
	14	MVYL	0-3	0	1	1	1	0	0	1	1	0	0	1	1	1	0	0	0
	15	MVYE	0-7	0	1	1	4	0	0	4	4	0	0	4	4	1	0	0	0
	16	MVCR	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	17	MVCL	0-3	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0
	18	MVCE	0-7	0	0	0	0	0	0	4	4	0	0	4	4	0	0	0	0
	0	POP	0-63	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
	1	MHLY	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	MHLC	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	MVLY	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	MVLC	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	MHYR	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	MHYL	0-3	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	7	MHYE	0-7	0	0	4	2	5	0	0	0	0	0	0	0	0	0	0	0
	8	MHYO	0,1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9	MHCR	0-3	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
	10	MHCL	0-3	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
	11	MHCE	0-7	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0
	12	MHCO	0-1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
	13	MVYR	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	14	MVYL	0-3	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
	15	MVYE	0-7	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0
	16	MVCR	0-3	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
	17	MVCL	0-3	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
	18	MVCE	0-7	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0

*NOT be memorized

Category	No	Item	Range		
MID5				Memory	
	19	SHLY	0-7	0	
	20	SHLC	0-7	0	
	21	SVLY	0-7	0	
	22	SVLC	0-7	0	
	23	SHYR	0-3	0	
	24	SHYL	0-3	0	
	25	SHYE	0-7	0	
	26	SHYO	0,1	0	
	27	SHCR	0-3	0	
	28	SHCL	0-3	0	
	29	SHCE	0-7	0	
	30	SHCO	0,1	0	
	31	SVYR	0-3	0	
	32	SVYL	0-3	0	
	33	SVYE	0-7	0	
	34	SVCR	0-3	0	
	35	SVCL	0-3	0	
	36	SVCE	0-7	0	
CXA3506R				480i	Others
	0	MCON	0,1	64	64
	1	SCOR	0-255	128	128
	2	SCOG	0-255	128	128
	3	SCOB	0-255	128	128
	4	RGB	0-255	0	0

*NOT be memorized

Category	No	Item	Range	27HS420 29DRC420	32HS420	36HS420	30HS420	34HS420
AUDIO	0	ASYS	0,1	0	0	0	0	0
	1	TRCV	0-3	1	1	1	1	1
	2	BACV	0-3	0	0	0	0	0
	3	MDCV	0-3	0	0	2	0	0
	4	SVHI	0-7	1	0	0	0	0
	5	SVLO	0-7	0	0	0	0	0
	6	MIDL	0-15	5	6	7	6	5
	7	LOFQ	0-7	0	0	0	0	0
	8	SBAS	0-15	10	10	10	10	11
	9	WOWS	0-15	2	2	2	2	2
	10	STRE	0-15	6	6	5	6	7
	11	WOWC	0-15	4	4	4	4	4
	12	PSEF	0-15	5	5	5	5	5
	13	AGCL	0-15	9	9	9	9	9

			27HS420 & 29DRC420					32HS420					36HS420				
			TruSurround	Simulated	SteadySound	WOW	Off	TruSurround	Simulated	SteadySound	WOW	Off	TruSurround	Simulated	SteadySound	WOW	Off
14	BBE	0,1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	BBEP	0-7	4	4	5	5	4	4	4	5	5	4	5	5	6	6	5
16	BBEL	0-7	4	4	4	6	4	4	4	4	6	4	4	4	4	6	4
17	BB2P	0-7	4	4	5	5	4	4	4	5	5	4	5	5	6	6	5
18	BB2L	0-7	4	4	4	6	4	4	4	4	6	4	4	4	4	6	4

			30HS420					34HS420				
			TruSurround	Simulated	SteadySound	WOW	Off	TruSurround	Simulated	SteadySound	WOW	Off
14	BBE	0,1	1	1	1	1	1	1	1	1	1	1
15	BBEP	0-7	3	3	4	4	3	5	5	6	6	5
16	BBEL	0-7	5	5	5	7	5	4	4	4	6	4
17	BB2P	0-7	3	3	4	4	3	5	5	6	6	5
18	BB2L	0-7	5	5	5	7	5	4	4	4	6	4

			27HS420 29DRC420	32HS420	36HS420	30HS420	34HS420
19	TRS1	0-7	4	4	4	4	4
20	TRS2	0-7	2	2	2	2	2

Category	No	Item	Range	*NOT be memorized							
SNNR	0	MODE	0-3	0							
	1	SNNR	0-7	0							
				WSLT- A	WSLT- B	WSLT- C	WSLT- D	WSLT- E	WSLT- F	WSLT- G	
	2	WSLT	0-255	15	31	45	63	85	110	127	
				SNNR=0	SNNR=1	SNNR=2	SNNR=3	SNNR=4	SNNR=5	SNNR=6	SNNR=7
	3	CPFG	0-15	0	0	1	1	2	2	2	3
	4	CPFT	0-3	0	0	0	0	0	0	0	0
	5	CCOR	0-3	0	0	1	1	1	1	1	1
	6	CHCG	0,1	0	1	1	1	1	1	1	1
	7	CAPG	0-7	0	0	0	0	0	0	0	0
	8	3SHP	0-15	0	0	1	1	2	2	2	3
	9	NYNR	0-15	0	1	2	2	3	3	4	4
	10	NCNR	0-15	0	1	2	2	3	3	4	4
	11	NYMG	0-3	0	0	0	0	0	0	0	0
	12	NCMG	0-3	0	0	0	0	0	0	0	0
	13	NYLT	0-15	0	1	1	2	3	4	6	8
	14	NYNC	0-15	0	0	2	2	3	3	4	4
	15	NYCO	0,1	0	0	1	1	1	1	1	1
	16	7SHP	0-63	0	0	1	1	3	3	3	4
	17	7YF1	0-3	0	0	1	1	2	2	2	3
	18	7LTI	0-3	0	0	0	0	0	0	0	0
	19	7CTI	0-3	0	0	0	0	0	0	0	0
	20	7VML	0-15	0	0	0	0	0	0	0	0
	21	7VMC	0-3	0	0	1	1	2	2	2	3
	22	MIDD	0-63	0	0	1	1	2	2	2	3

Category	No	Item	Range	*NOT be memorized
3DNR	0	WHCT	0-63	44
	1	NIQM	0,1	1
	2	CLPW	0-63	30
	3	CLPP	0-255	80
	4	YHBW	0-255	138
	5	YBKL	0-15	0
	6	YBKO	0,1	0
	7	MUTE	0,1	0
	8	YHBS	0-127	40
	9	CHBW	0-255	138
	10	CBKO	0-127	40
	11	CHBO	0,1	0
	12	VHBL	0-15	0
	13	UHBL	0-15	0
	14	UVDL	0-7	0
	15	YDL	0-7	0
	16	PVDI	0,1	0
	17	PHDI	0,1	0
	18	HDW	0-63	16
	19	PVDO	0,1	0
	20	PHDO	0,1	0
	21	HST	0-255	54
	22	VDL	0-15	0
	23	VDW	0-15	44
	24	NDET	0-15	1
	25	NVP	0-15	30
	26	NDTS	0-3	80
	27	HROF	0,1	138
	28	NDGW	0-15	0
	29	UOFS	0-7	1
	30	POT	0-3	0
	31	UVF	0,1	40
	32	APC	0,1	138
	33	DAP	0,1	40

Category	No	Item	Range	*NOT be memorized							
3DNR				Vivid		Standard		Movie		Pro	
				480i	Others	480i	Others	480i	Others	480i	Others
	34	YLV	0-15	15	15	10	10	10	10	8	8
	35	YST	0,1	0							
	36	YNT	0,1	1							
	37	YPL	0,1	1							
	38	YMV	0,1	0							
				Vivid		Standard		Movie		Pro	
				480i	Others	480i	Others	480i	Others	480i	Others
	39	YCR	0-31	3	3	3	3	3	3	3	3
	40	VOS	0-7	1							
				Vivid		Standard		Movie		Pro	
				480i	Others	480i	Others	480i	Others	480i	Others
	41	YMG	0-3	3	3	3	3	3	3	3	3
	42	YEG	0,1	1							
				Vivid		Standard		Movie		Pro	
				480i	Others	480i	Others	480i	Others	480i	Others
	43	YEL	0-15	6	6	6	6	6	6	6	6
	44	YLM	0-127	6	6	6	6	6	6	6	6
	45	CLV	0-15	15	15	10	10	10	10	8	8
	46	CNT	0,1	1							
	47	CPL	0,1	1							

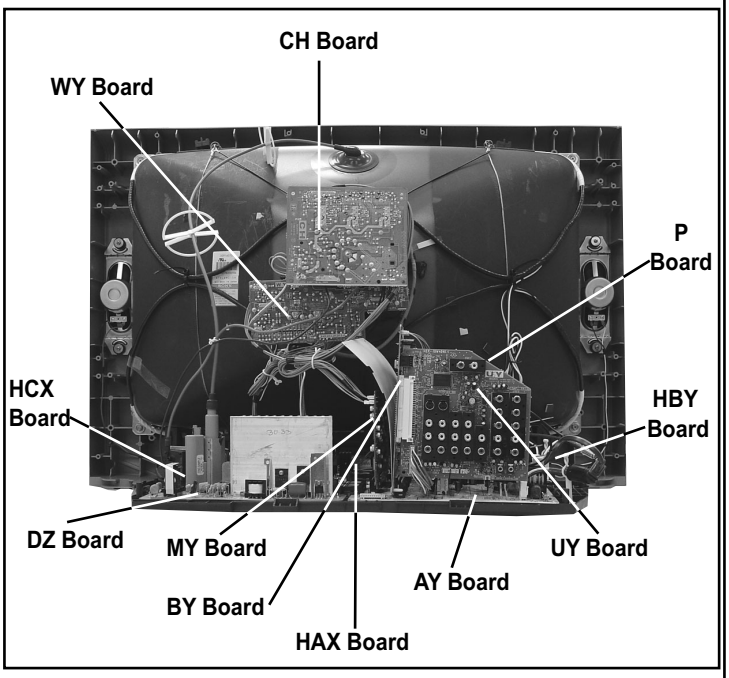
Category	No	Item	Range	*NOT be memorized							
3DNR				Vivid		Standard		Movie		Pro	
				480i	Others	480i	Others	480i	Others	480i	Others
	48	CMG	0-3	3	3	3	3	3	3	3	3
	49	CCR	0-31	6	6	6	6	6	6	6	6
	50	CLM	0-127	6	6	6	6	6	6	6	6
	51	NVSL	0-255	20							
	52	NVSH	0,1	0							
	53	NHS	0-127	16							
	54	NVEL	0-255	244							
	55	NVEH	0,1	0							
	56	NHE	0-127	120							
				Vivid		Standard		Movie		Pro	
				480i	Others	480i	Others	480i	Others	480i	Others
	57	YNG	0-3	3	3	3	3	3	3	3	3
	58	COR	0,1	0	0	0	0	0	0	0	0
	59	LPF	0,1	0	0	0	0	0	0	0	0
	60	YLT	0-15	0	0	0	0	0	0	0	0
	61	YNC	0-15	15	15	10	10	10	10	8	8
	62	YCO	0,1	0	0	0	0	0	0	0	0
	63	ADTH	0,1	0							
HDMI	0	WP	0,1	0 *							
	1	INP	0~3	1							
	2	INFO	0,1	0 *							
OP	0	DLY1	0-31	4							
	1	DLY2	0-31	12							
	2	DLY3	0-15	7							
	3	OSDH	0-255	20							
	4	HDPT	0,1	1	**Note:** CXA2170 Setting						
	5	MSBG	0-255	0							
	6	AACK*	0-3	2							
	7	RAMW*	0-3	0 *							

4-5. ID MAP TABLE

Category	No	Item	Range	*NOT be memorized												
ID				DA4-2004HS (4x3) Models									DA4-2004HS (16x9) Models			
				KV-27HS420		KV-29DRC420		KV-32HS420		KV-36HS420			KV-30HS420			KV-34HS420	
				US	CND	North	South	US	CND	US	CND	HAW	US	CND	HAW	US	CND
	0	ID0	0-255	89	89	89	89	89	89	89	89	89	89	89	89	89	89
	1	ID1	0-255	217	217	217	217	217	217	217	217	217	217	217	217	217	217
	2	ID2	0-255	239	239	239	239	239	239	239	239	239	239	239	239	239	239
	3	ID3	0-255	106	90	202	202	106	90	106	90	106	106	90	106	106	90
	4	ID4	0-255	195	195	195	195	195	195	195	195	195	195	195	195	195	195
	5	ID5	0-255	240	240	240	240	240	240	240	240	240	240	240	240	240	240
	6	ID6	0-255	176	176	176	176	176	176	176	176	176	176	176	176	176	176
	7	ID7	0-255	16	16	80	80	16	16	16	16	16	17 [11h]	17 [11h]	17 [11h]	17 [11h]	17 [11h]

SECTION 5: DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION



5-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS INFORMATION

All capacitors are in µF unless otherwise noted. pF : µµF 50WV or less are not indicated except for electrolytics and tantalums.

All electrolytics are in 50V unless otherwise specified.

All resistors are in ohms. kΩ=1000Ω, MΩ=1000kΩ

Indication of resistance, which does not have one for rating electrical power, is as follows: Pitch : 5mm
Rating electrical power : $^1/_4$W

$^1/_4$W in resistance, $^1/_{10}$W and $^1/_{16}$W in chip resistance.

: nonflammable resistor

: fusible resistor

△ : internal component

: panel designation and adjustment for repair

⊥ : earth ground

⏚ : earth-chassis

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

Readings are taken with a color-bar signal input.

Readings are taken with a 10MΩ digital multimeter.

Voltages are DC with respect to ground unless otherwise noted.

Voltage variations may be noted due to normal production tolerances.

All voltages are in V.

S : Measurement impossibility.

: B+line.

: B-line. (Actual measured value may be different).

: signal path. (RF)

Circled numbers are waveform references.

The components identified by shading and ⚠ symbol are critical for safety. Replace only with part number specified.

The symbol indicates a fast operating fuse and is displayed on the component side of the board. Replace only with fuse of the same rating as marked.

Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

Le symbole indique une fusible a action rapide. Doit etre remplace par une fusible de meme yaleur, comme maque.

The components identified by ⋈ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be necessary, replace only with the value originally used.

When replacing components identified by ◪, make the necessary adjustments as indicated. If the results do not meet the specified value, change the component identified by ⋈ and repeat the adjustment until the specified value is achieved.

When replacing the parts listed in the table below, it is important to perform the related adjustments.

Part Replaced (◪)	Adjustment (⋈)
DZ BOARD: IC6503, IC8001, IC8002, IC8004, IC8005, IC8104, D8022, PH8003, Q8007, Q8008, R6590, R8012, R8014, R8015, R8016, R8017, R8019, R8021, R8027, R8029, R8030, R8031, R8035, R8036, R8037,R8038, R8039, R8040, R8043, R8046, R8052, R8059, R8060, R8066, R8072, R8078, R8079, R8082, R8165, T8001	**HV ADJUST** No HV Adjustment Required

REFERENCE INFORMATION

RESISTOR

: RN	METAL FILM	
: RC	SOLID	
: FPRD	NONFLAMMABLE CARBON	
: FUSE	NONFLAMMABLE FUSIBLE	
: RW	NONFLAMMABLE WIREWOUND	
: RS	NONFLAMMABLE METAL OXIDE	
: RB	NONFLAMMABLE CEMENT	
: ※	ADJUSTMENT RESISTOR	

CAPACITOR

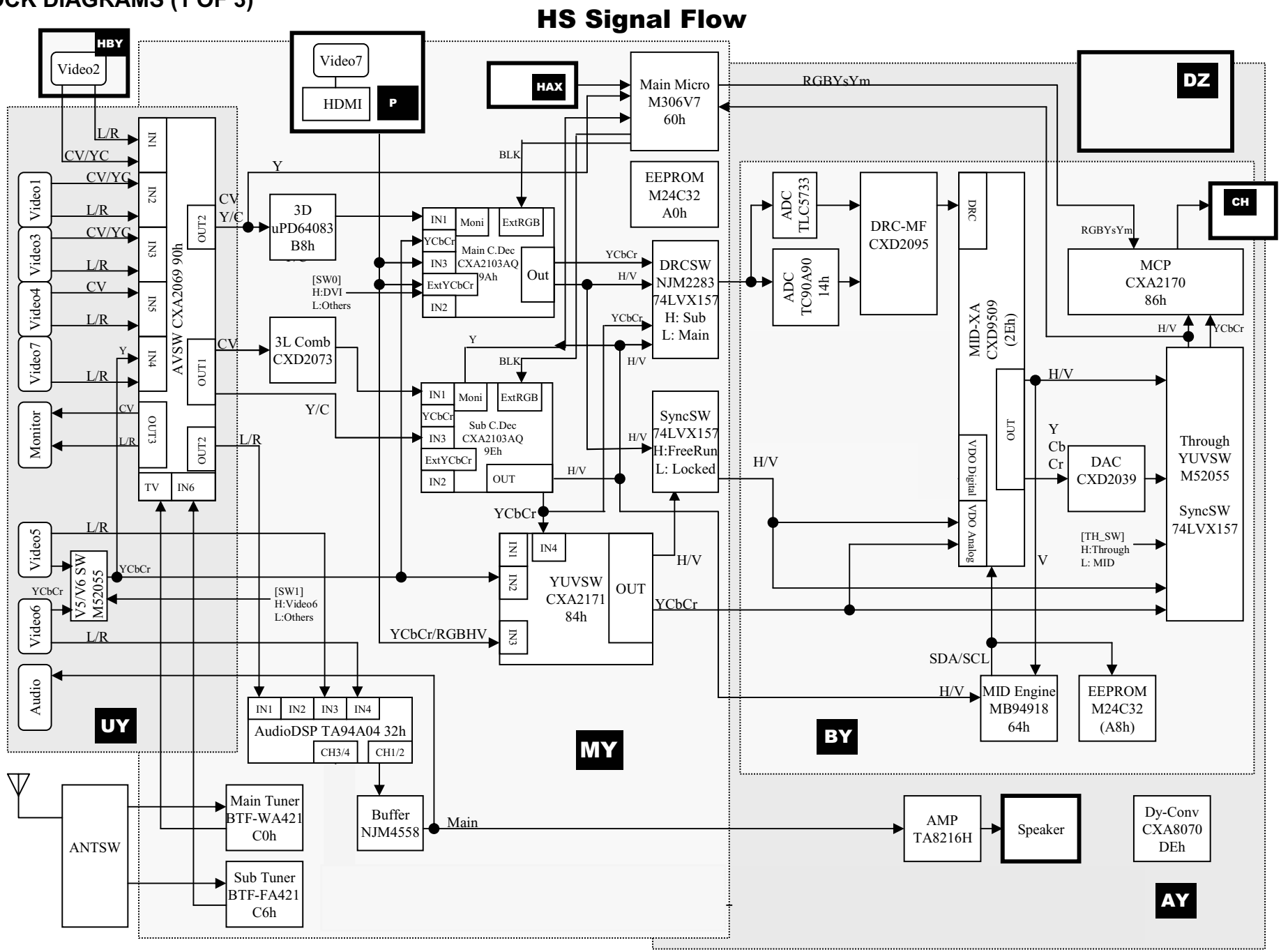
: TA	TANTALUM
: PS	STYROL
: PP	POLYPROPYLENE
: PT	MYLAR
: MPS	METALIZED POLYESTER
: MPP	METALIZED POLYPROPYLENE
: ALB	BIPOLAR
: ALT	HIGH TEMPERATURE
: ALR	HIGH RIPPLE

COIL

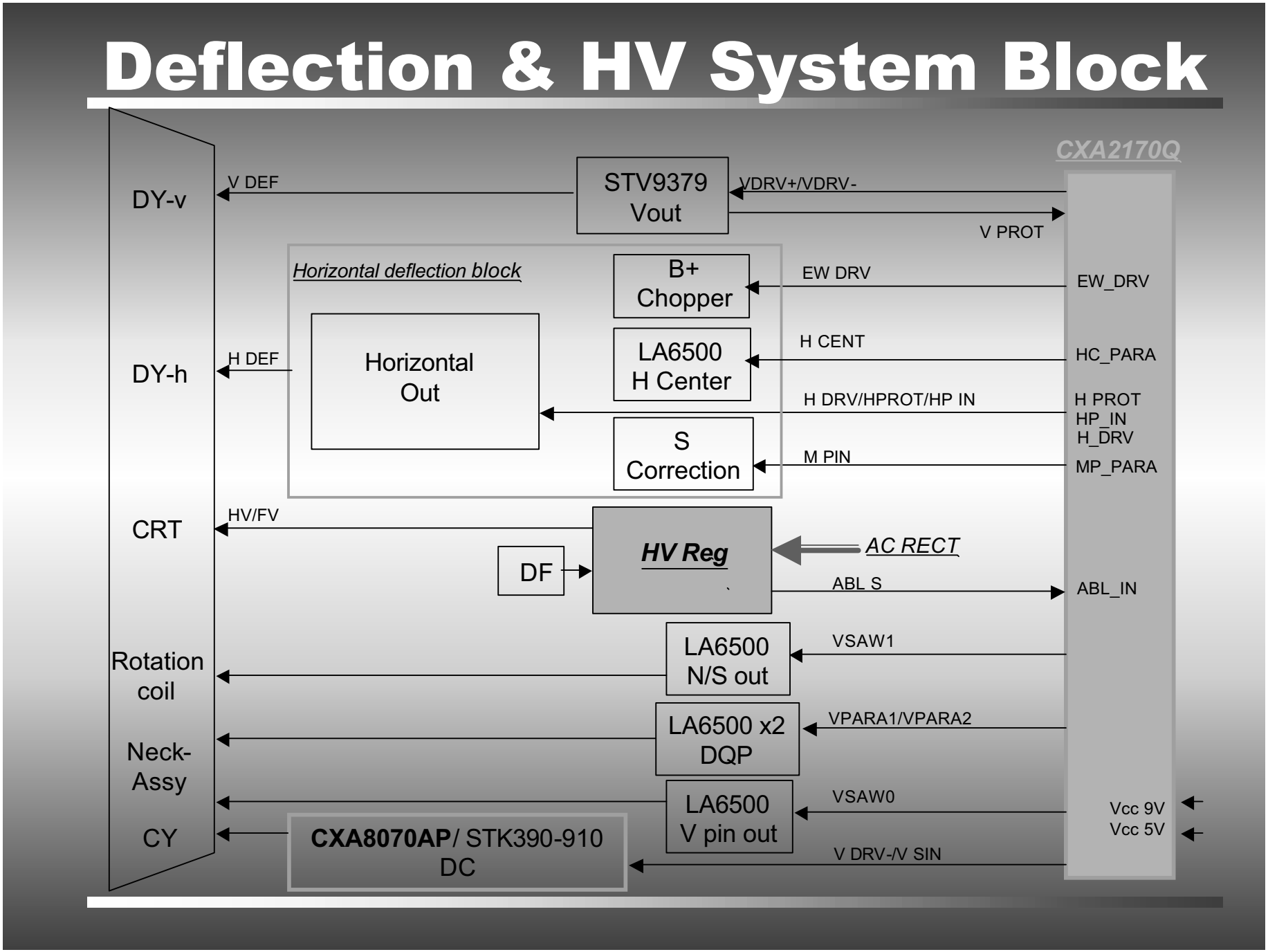
: LF-8L MICRO INDUCTOR

5-3. BLOCK DIAGRAMS

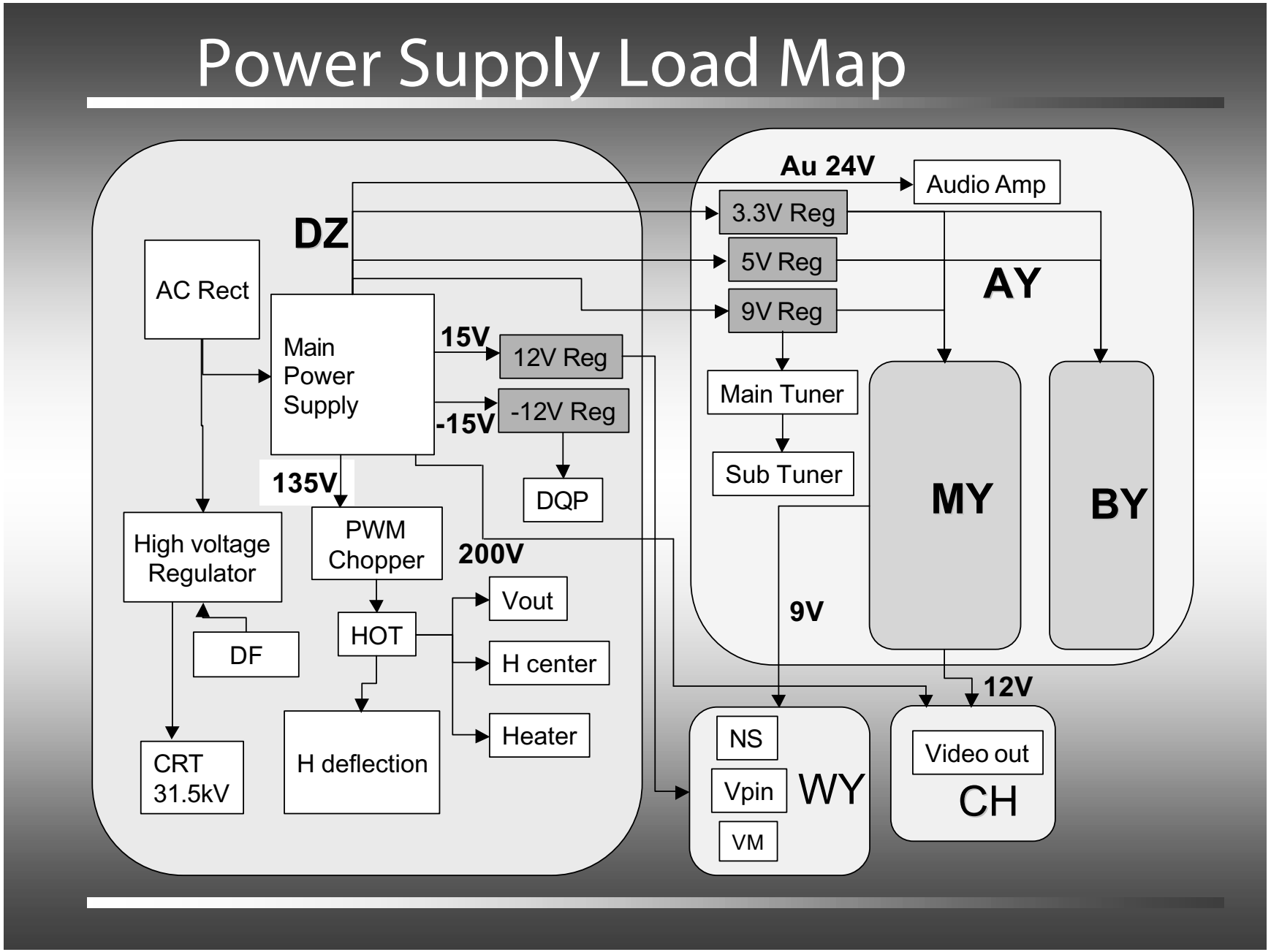
BLOCK DIAGRAMS (1 OF 3)



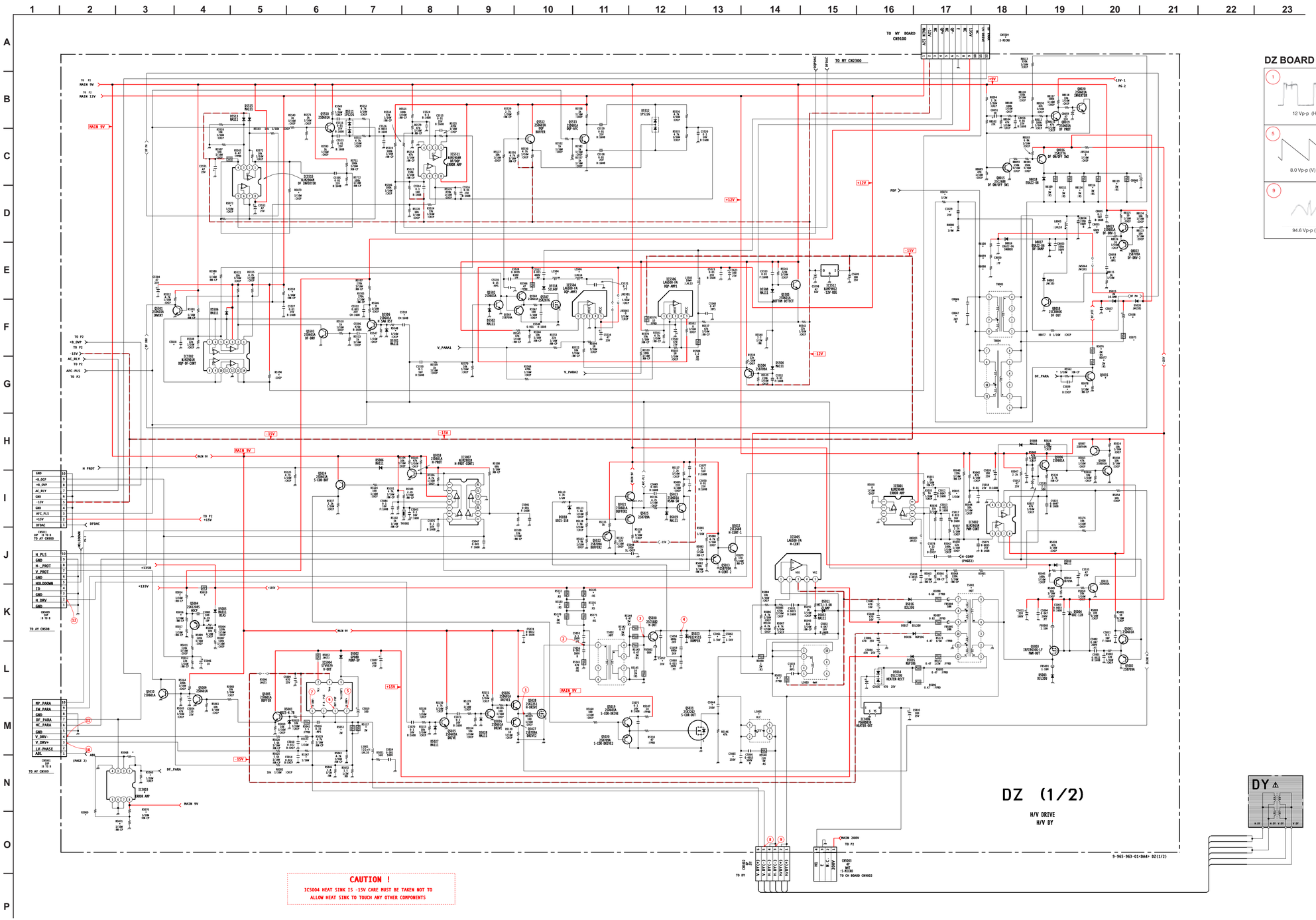
BLOCK DIAGRAMS (2 OF 3)



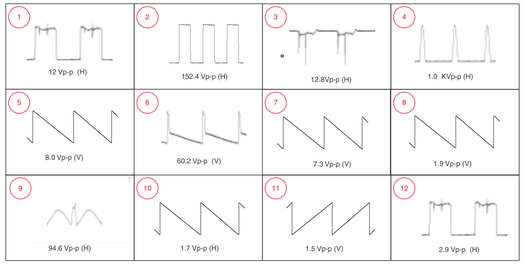
BLOCK DIAGRAMS (3 OF 3)



5-4. SCHEMATICS AND SUPPORTING INFORMATION
DZ BOARD SCHEMATIC DIAGRAM (1 OF 2)


DZ (1/2)
H/V DRIVE
H/V DY
CAUTION !
IC5004 HEAT SINK IS -15V CARE MUST BE TAKEN NOT TO ALLOW HEAT SINK TO TOUCH ANY OTHER COMPONENTS
TO MY BOARD CN9100
TO RY CN2300
TO DY
9-965-963-01<DA4> DZ(1/2)

DZ BOARD WAVEFORMS

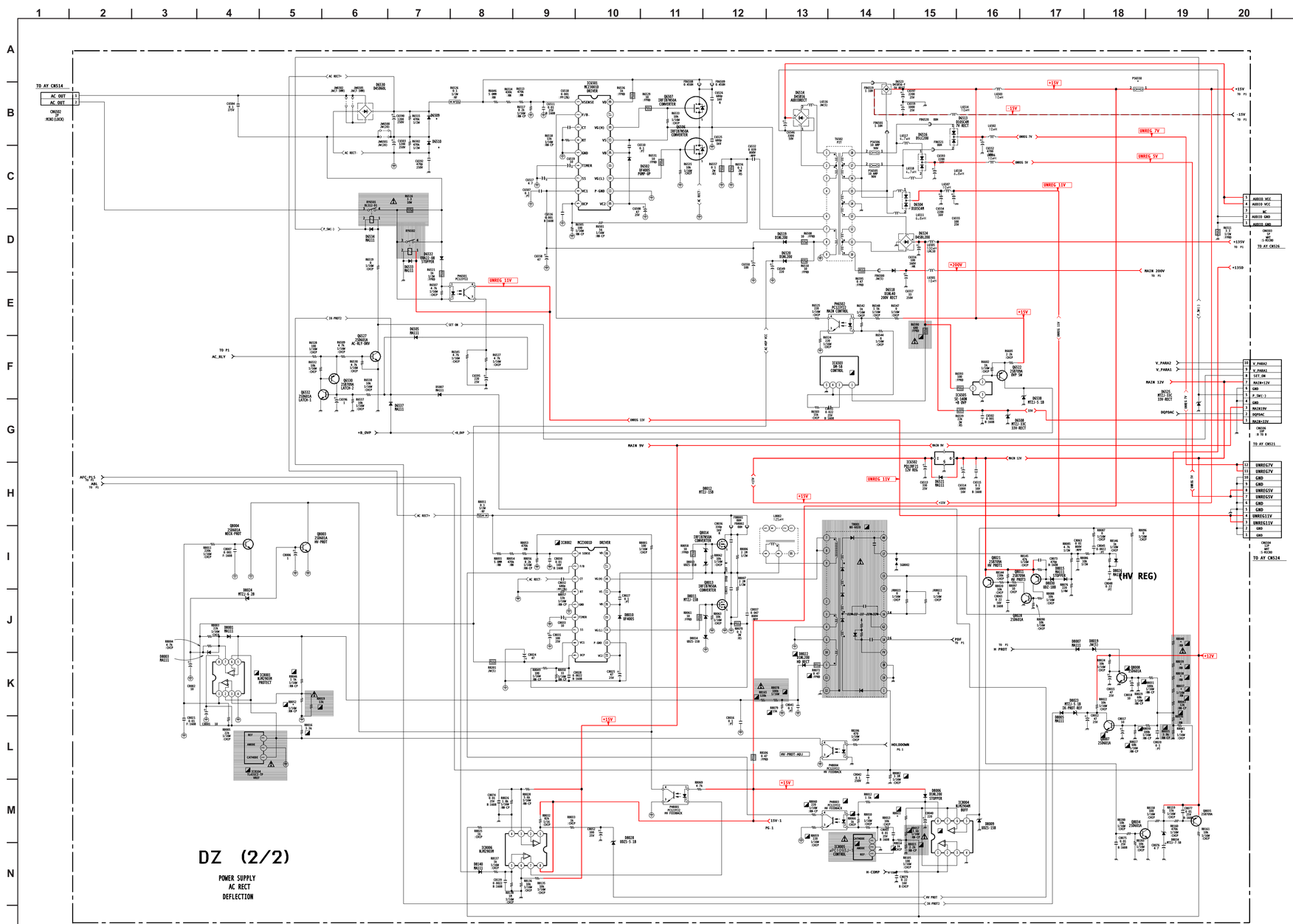


DZ BOARD IC VOLTAGE LIST

IC5001		IC5006		IC5506		6	0.0	3	2.2
PIN	VOLT	PIN	VOLT	PIN	VOLT	7	4.6	4	2.5
1	10.9	I	7.7	1	1.0	8	17.9	5	GND
2	10.9	O	6.3	2	1.0	9	0.0	6	0.0
3	N/C	G	GND	3	-15.8	10	10.5	7	4.6
4	GND	VC	N/C	4	1.7	11	GND	8	17.9
5	3.9	IC5007		5	12.0	12	4.8	9	0.0
6	3.9	PIN	VOLT	IC5511		13	N/C	10	10.5
7	4.7	1	2.4	PIN	VOLT	14	151.8	11	GND
8	12.0	2	0.7	1	4.0	15	142.2	12	4.8
IC5002		3	9.0	2	5.8	16	146.3	13	N/C
PIN	VOLT	4	1.6	3	5.8	17	N/C	14	151.8
1	5.6	5	GND	4	GND	18	306.1	15	142.2
2	2.6	6	3.9	5	2.6	IC6502		16	146.3
3	5.9	7	2.7	6	2.6	PIN	VOLT	17	N/C
4	GND	8	0.4	7	7.6	I	15.0	18	306.1
5	5.1	9	3.0	8	12.0	O	12.0	IC8004	
6	5.6	10	N/C	IC5512		G	GND	PIN	VOLT
7	4.8	11	N/C	PIN	VOLT	4	N/C	1	6.9
8	12.0	12	GND	I	-15.0	IC6503		2	6.9
IC5003		13	N/C	O	-12.0	PIN	VOLT	3	6.9
PIN	VOLT	14	0.7	G	GND	1	133.8	4	GND
1	4.7	IC5502		IC5515		2	N/C	5	6.9
2	3.9	PIN	VOLT	PIN	VOLT	3	2.5	6	6.9
3	3.9	1	6.9	1	0.0	4	11.0	7	6.9
4	GND	2	0.5	2	0.0	5	GND	8	15.0
5	GND	3	12.0	3	0.0	IC6505		IC8005	
6	GND	4	2.7	4	-11.9	PIN	VOLT	PIN	VOLT
7	GND	5	3.7	5	6.0	1	134.4	1	2.5
8	9.0	6	2.6	6	6.0	2	15.4	2	GND
IC5004		7	4.4	7	6.0	3	GND	3	9.9
PIN	VOLT	8	N/C	8	9.0	IC8001		IC8006	
1	1.2	9	2.6	IC6500		PIN	VOLT	PIN	VOLT
2	14.1	10	2.6	PIN	VOLT	1	0.1	1	0.0
3	-13.1	11	N/C	I	15.0	2	2.5	2	2.5
4	-15.3	12	GND	O	12.0	3	2.1	3	2.2
5	0.0	13	0.7	G	GND	4	GND	4	GND
6	14.6	14	0.7	4	N/C	5	2.3	5	7.5
7	1.2	IC5504		IC6501		6	2.5	6	4.5
IC5005		PIN	VOLT	PIN	VOLT	7	0.0	7	14.8
PIN	VOLT	1	1.6	1	2.8	8	17.5	8	15.0
1	99.4	2	1.6	2	1.8	IC8002		IC8104	
2	99.1	3	GND	3	2.2	PIN	VOLT	PIN	VOLT
3	94.6	4	5.4	4	2.5	1	2.6	1	2.5
4	98.8	5	12.0	5	GND	2	1.8	2	GND
5	105.0							3	2.5

All voltages are in V.

DZ BOARD SCHEMATIC DIAGRAM (2 OF 2)



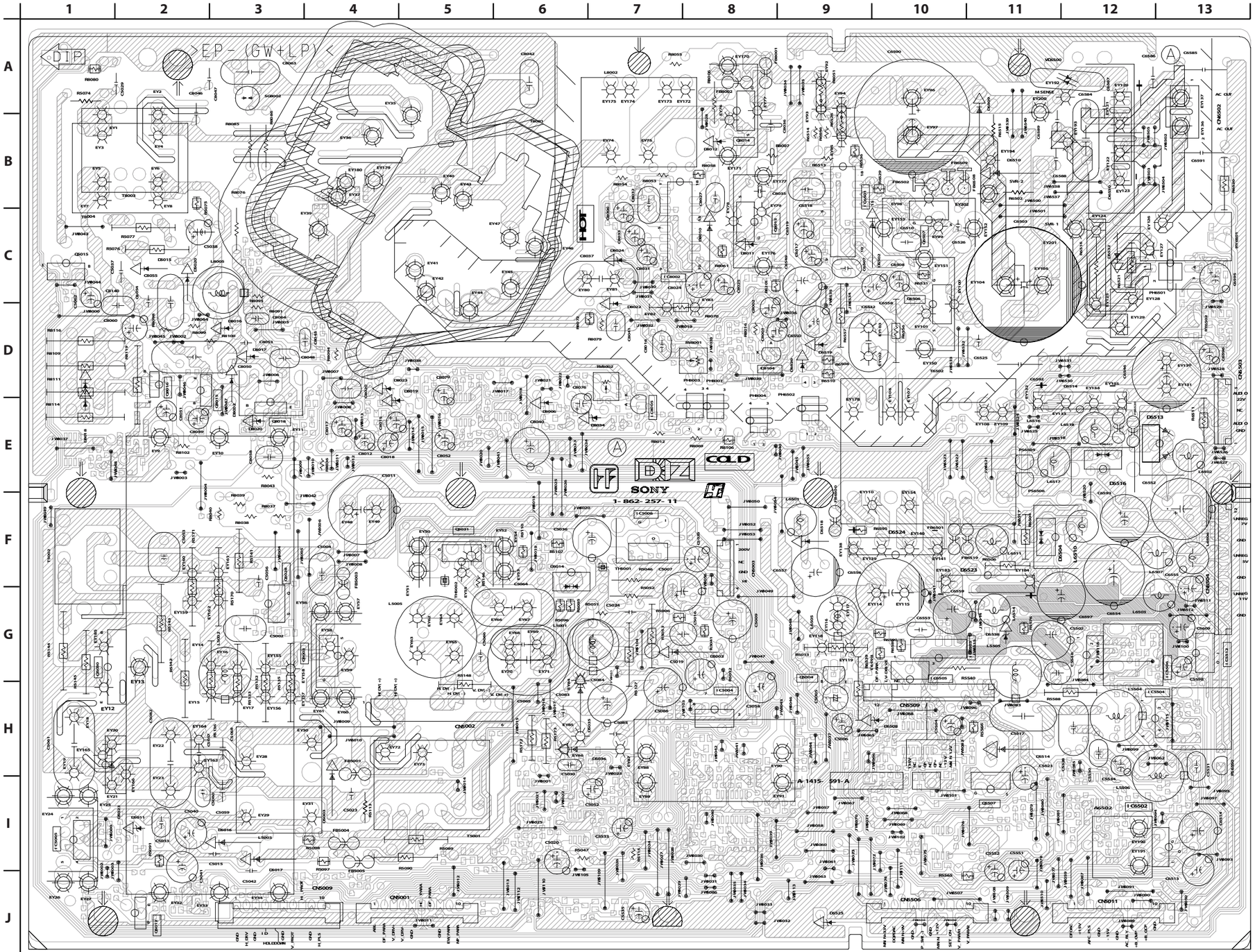
DZ BOARD TRANSISTOR VOLTAGE LIST

	B	C	E		B	C	E		D	G	S
Q5001	4.8	12	4.9	Q5505	0.4	9.0	0.0	Q5003	10.9	128.8	135.0
Q5002	4.8	GND	4.9	Q5506	0.0	2.7	GND	Q5028	63.9	3.8	GND
Q5004	133.3	3.7	132.7	Q5510	0.7	8.3	0.8	Q5031	14.6	2.1	GND
Q5005	0.0	14.1	0.2	Q5512	4.4	12.0	3.8	Q5507	10.5	6.9	GND
Q5006	11.2	12.0	10.7	Q5513	1.3	8.7	4.2	Q6506	140.1	4.8	GND
Q5007	11.4	12.1	12.0	Q5568	6.9	12.0	7.0	Q6507	305.6	145.1	140.1
Q5008	0.7	0.0	GND	Q5569	6.9	0.0	7.0	Q8013	136.0	4.5	GND
Q5009	0.0	0.0	GND	Q6522	15.4	0.0	15.4	Q8014	305.0	131.0	136.0
Q5010	0.1	0.8	GND	Q6527	0.8	0.1	GND				
Q5011	0.0	0.0	GND	Q6530	3.2	0.0	3.2				
Q5012	3.4	97.5	2.9	Q6532	0.0	3.2	GND				
Q5013	2.8	GND	3.4	Q8003	0.1	2.6	GND				
Q5014	8.9	0.0	9.0	Q8004	0.1	2.6	GND				
Q5015	2.1	105.0	1.5	Q8007	0.6	0.1	GND				
Q5018	0.7	0.0	GND	Q8008	0.6	0.1	GND				
Q5019	2.2	9.0	2.1	Q8011	11.9	0.0	12.0				
Q5020	2.2	GND	2.1	Q8015	0.6	0.0	GND				
Q5021	0.9	9.0	1.3	Q8016	132.6	132.4	133.3				
Q5022	0.6	GND	1.2	Q8018	0.0	86.6	GND				
Q5023	0.2	3.9	GND	Q8019	0.6	0.0	GND				
Q5024	2.4	9.0	2.2	Q8020	0.0	0.6	GND				
Q5025	0.9	-15.0	1.3	Q8021	11.7	0.0	12.0				
Q5026	3.8	9.0	3.8	Q8022	3.4	GND	3.5				
Q5027	3.8	0.0	3.8	Q8023	3.4	9.0	3.5				
Q5030	0.0	84.3	GND	Q8028	0.0	11.7	GND				
Q5035	0.0	2.1	GND	Q8034	0.0	12.0	GND				
Q5036	0.2	3.8	GND	Q8035	11.6	2.5	12.0				
Q5501	0.5	3.4	GND								
Q5502	0.0	6.9	GND								
Q5503	0.0	0.5	GND								
Q5504	0.2	-12.0	0.8								

All voltages are in V.

DZ [H/V DRIVE, H/V, DY, POWER SUPPLY, AC RECT, DEFLECTION]

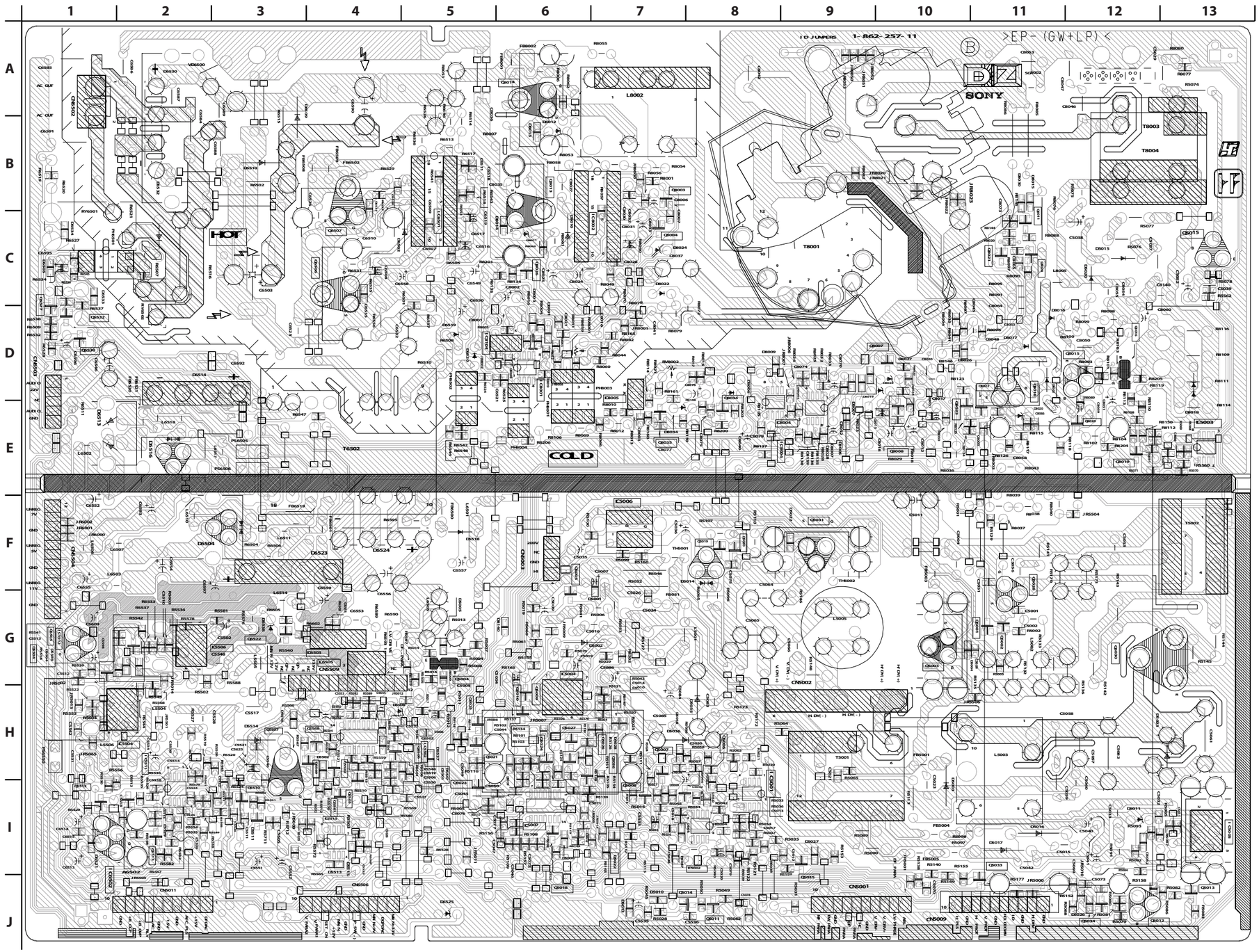
COMPONENT SIDE



DZ

[H/V DRIVE, H/V, DY, POWER SUPPLY, AC RECT, DEFLECTION]

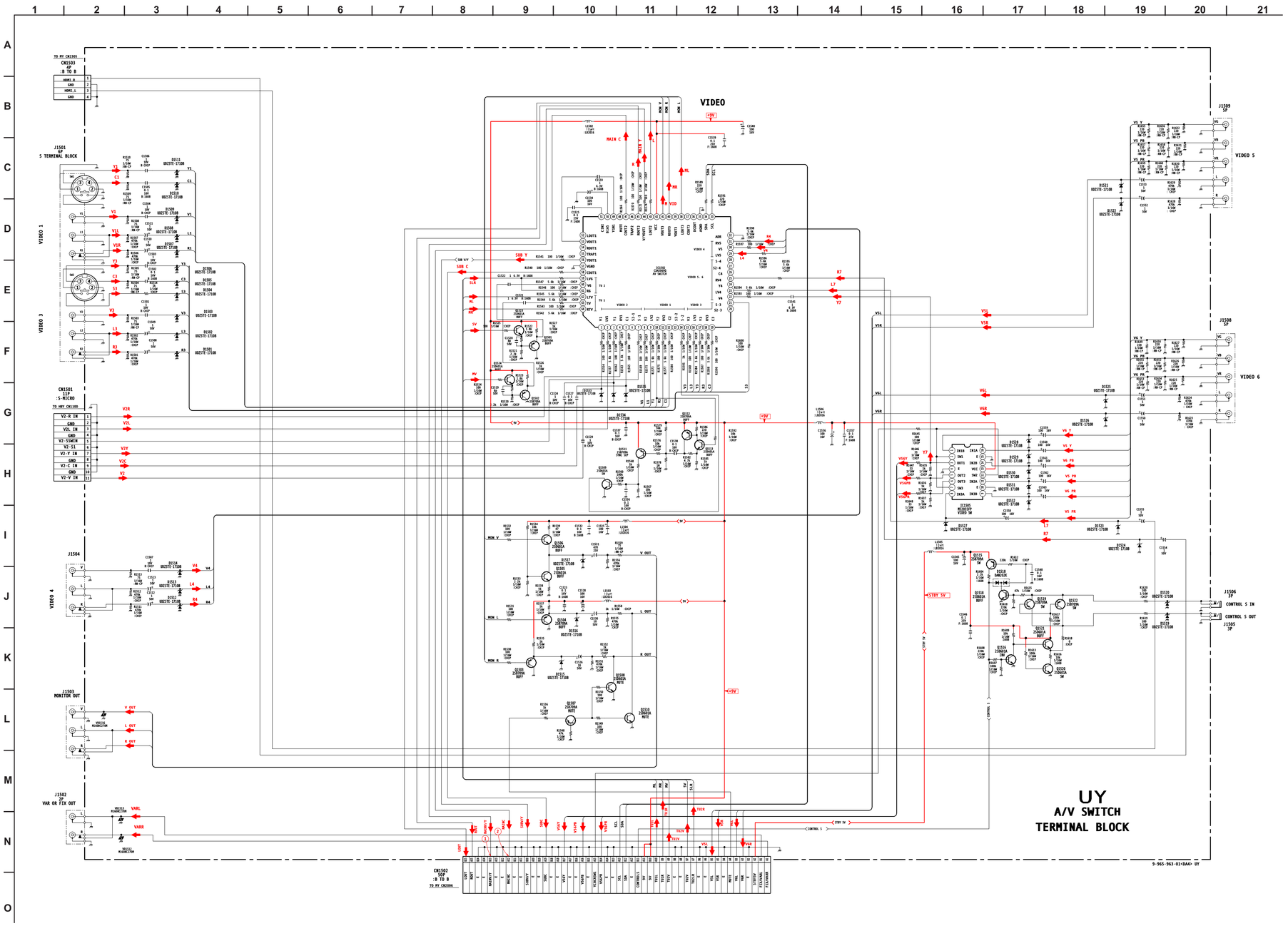
CONDUCTOR SIDE



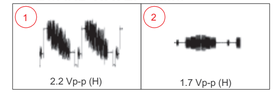
DZ BOARD LOCATOR LIST

DIODE		DIODE		TRANSISTOR	
D5001	F-7	D8003	C-6	Q5009	G-6
D5002	G-7	D8005	E-9	Q5010	G-6
D5003	H-10	D8006	D-8	Q5011	J-8
D5004	G-11	D8007	E-9	Q5012	J-12
D5005	G-5	D8009	D-8	Q5013	J-13
D5006	I-6	D8010	C-6	Q5014	J-8
D5007	E-9	D8011	C-6	Q5015	C-13
D5008	I-8	D8012	B-6	Q5018	J-6
D5010	J-7	D8013	B-6	Q5019	F-8
D5011	I-12	D8014	B-5	Q5020	F-8
D5014	F-8	D8015	B-11	Q5021	H-6
D5015	C-12	D8016	D-10	Q5022	I-7
D5016	I-11	D8017	D-11	Q5023	H-5
D5017	I-11	D8018	E-13	Q5024	H-6
D5018	H-7	D8019	D-10	Q5025	H-5
D5019	H-6	D8022	C-7	Q5026	H-7
D5023	H-13	D8023	D-10	Q5027	H-6
D5027	I-9	D8024	C-7	Q5028	F-11
D5028	H-7	D8026	D-10	Q5030	G-12
D5032	I-12	D8028	E-9	Q5031	F-9
D5035	H-8	D8030	B-11	Q5035	H-9
D5036	H-8	D8034	E-7	Q5036	H-7
D5501	H-5	D8140	G-6	Q5501	I-4
D5502	H-4	IC		Q5502	H-4
D5504	G-1	IC5001	I-9	Q5503	H-4
D5506	H-5	IC5002	I-8	Q5504	G-1
D5508	G-1	IC5003	E-13	Q5505	G-1
D5511	I-3	IC5004	G-6	Q5506	H-5
D5512	I-2	IC5005	I-13	Q5507	H-3
D5513	I-4	IC5006	F-7	Q5510	H-3
D5514	H-3	IC5007	I-6	Q5512	I-1
D5515	I-4	IC5502	H-5	Q5513	I-2
D6502	C-4	IC5504	H-2	Q5568	H-4
D6504	F-3	IC5506	G-3	Q5569	H-4
D6505	C-1	IC5511	H-2	Q6506	C-4
D6508	H-5	IC5512	G-1	Q6507	C-4
D6509	A-3	IC5515	I-4	Q6522	G-3
D6510	B-3	IC6501	C-5	Q6527	C-1
D6513	D-2	IC6502	J-1	Q6530	D-1
D6514	D-3	IC6503	F-4	Q6532	D-1
D6516	E-2	IC6505	G-4	Q8003	B-7
D6518	F-5	IC8001	D-6	Q8004	C-7
D6519	D-5	IC8002	C-6	Q8007	D-9
D6520	D-5	IC8004	E-9	Q8008	E-10
D6521	I-1	IC8005	D-7	Q8011	B-11
D6523	F-4	IC8006	E-9	Q8013	B-6
D6524	F-4	IC8104	D-6	Q8014	A-6
D6525	F-4	TRANSISTOR		Q8015	D-12
D6530	A-2	Q5001	F-11	Q8016	D-12
D6532	B-2	Q5002	F-11	Q8018	D-11
D6533	C-1	Q5003	G-10	Q8019	E-12
D6534	C-1	Q5004	G-5	Q8020	E-12
D6537	H-5	Q5005	F-6	Q8021	C-11
D6538	G-3	Q5006	H-8	Q8022	D-11
D8001	D-6	Q5007	H-7	Q8023	D-10
D8002	D-11	Q5008	I-7	Q8028	C-11
				Q8034	D-8
				Q8035	E-7

UY BOARD SCHEMATIC DIAGRAM



UY BOARD WAVEFORMS



UY BOARD IC VOLTAGE LIST

IC1502		21	4.9	43	4.5	IC1505	
PIN	VOLT	22	3.9	44	4.3	PIN	VOLT
1	3.9	23	4.5	45	4.5	1	4.7
2	4.5	24	N/C	46	N/C	2	0.0
3	3.9	25	4.5	47	4.4	3	3.2
4	4.5	26	N/C	48	N/C	4	GND
5	4.5	27	N/C	49	4.9	5	3.2
6	N/C	28	N/C	50	4.5	6	3.2
7	4.9	29	4.5	51	4.5	7	0.0
8	4.3	30	3.9	52	N/C	8	4.6
9	4.5	31	4.5	53	4.4	9	4.6
10	3.9	32	GND	54	N/C	10	GND
11	4.5	33	4.6	55	N/C	11	4.7
12	4.5	34	4.6	56	4.1	12	0.0
13	N/C	35	GND	57	GND	13	9.0
14	4.9	36	N/C	58	4.4	14	4.7
15	3.9	37	N/C	59	4.5	15	GND
16	4.5	38	4.5	60	5.0	16	4.7
17	3.9	39	N/C	61	4.5		
18	4.5	40	4.5	62	4.5		
19	4.5	41	4.4	63	4.9		
20	N/C	42	9.0	64	4.5		

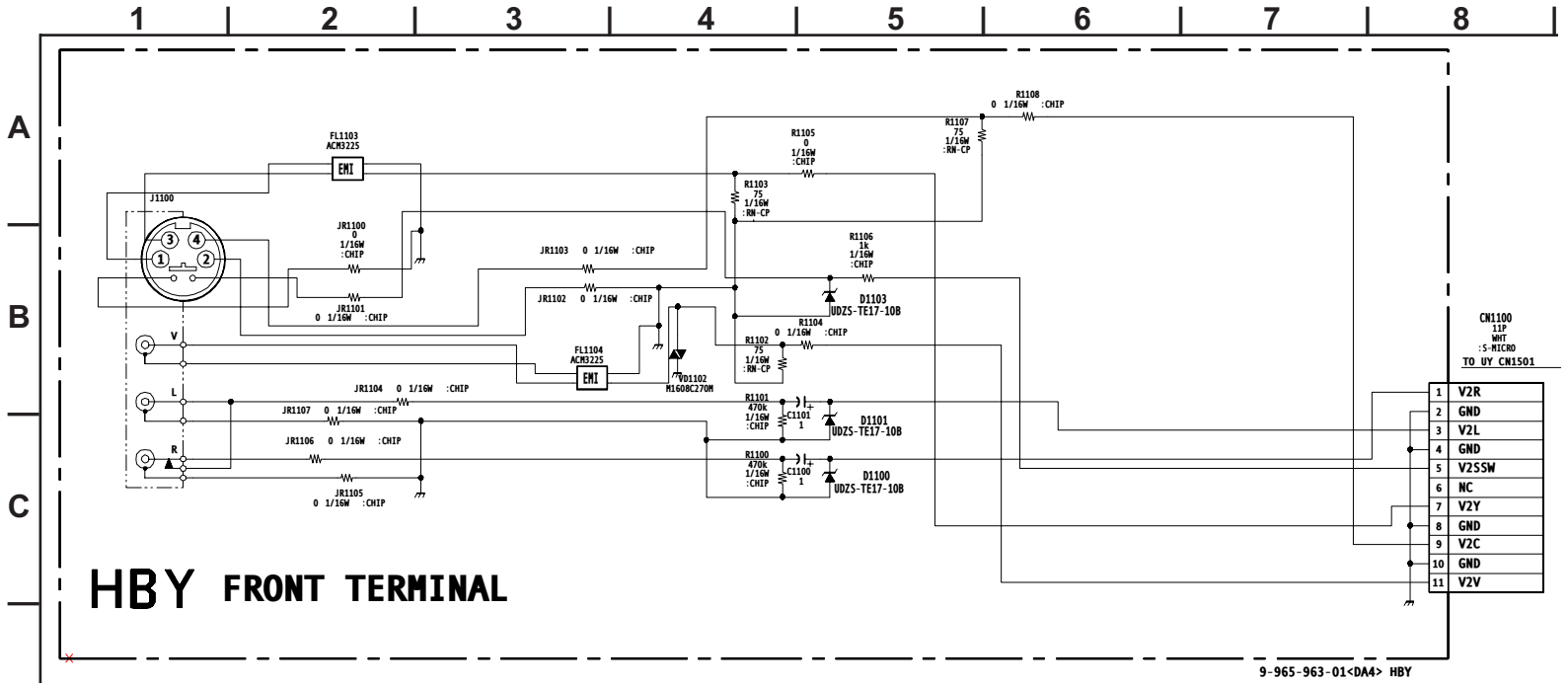
All voltages are in V.

UY BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q1501	2.0	GND	2.7
Q1502	3.3	GND	4.0
Q1503	4.5	GND	5.2
Q1504	4.5	GND	5.2
Q1505	1.6	3.7	0.9
Q1506	4.4	8.3	3.8
Q1507	0.0	0.0	0.0
Q1508	0.0	0.0	GND
Q1509	0.0	4.9	GND
Q1510	0.0	0.0	GND
Q1511	8.5	0.0	9.0
Q1512	8.4	5.3	9.0
Q1513	3.8	8.4	3.2
Q1515	4.9	4.2	5.0
Q1516	0.6	0.1	GND
Q1518	0.0	4.9	GND
Q1519	5.0	0.0	0.0
Q1520	0.6	0.0	GND
Q1521	0.1	5.0	0.0
Q1522	5.0	0.0	0.0
Q1523	4.5	9.0	3.9
Q1524	6.5	9.0	3.9

All voltages are in V.

HBY BOARD SCHEMATIC DIAGRAM

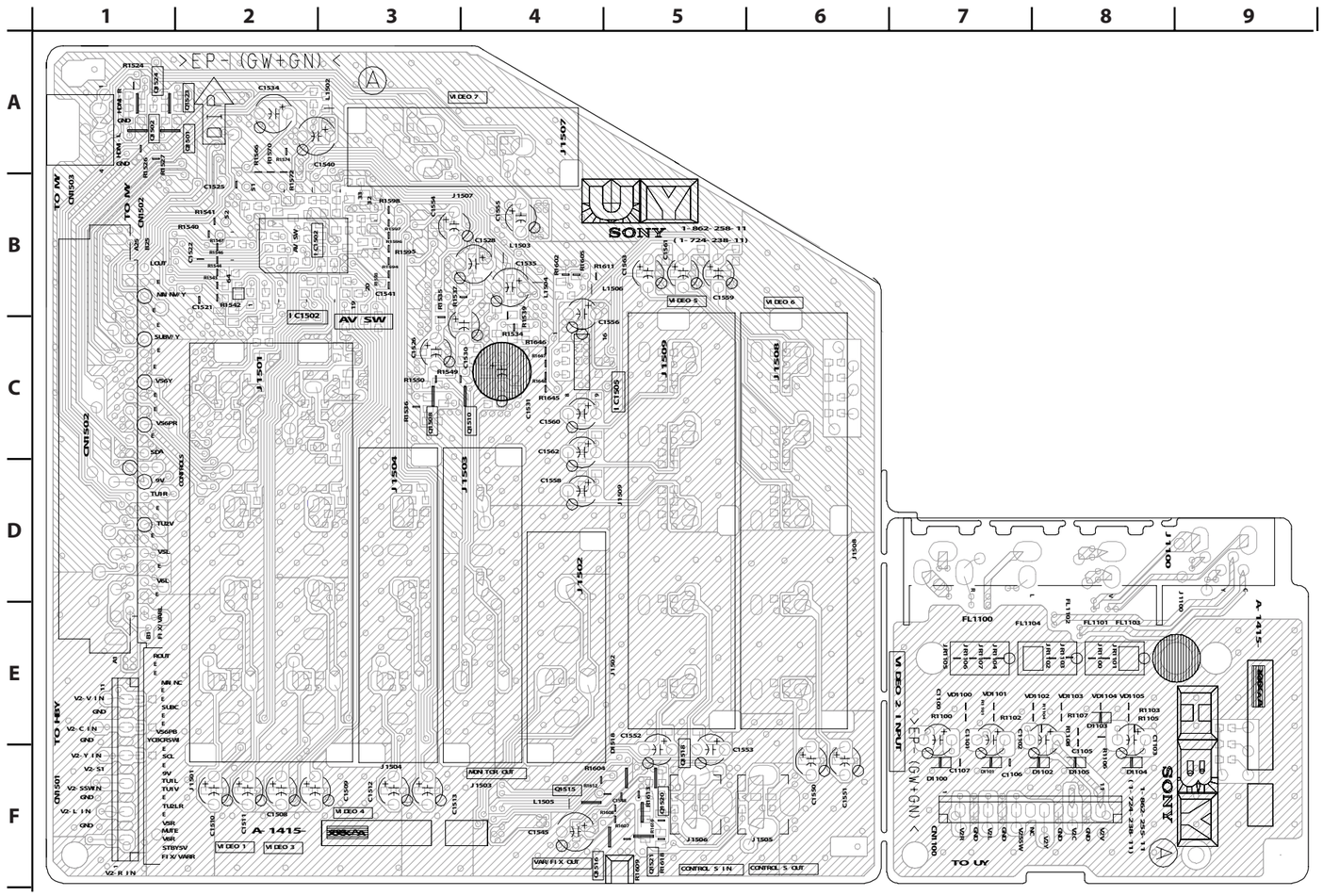


UY [A/V SWITCH, TERMINAL BLOCK]

COMPONENT SIDE

HBY [FRONT TERMINAL]

COMPONENT SIDE



UY BOARD LOCATOR LIST
COMPONENT SIDE

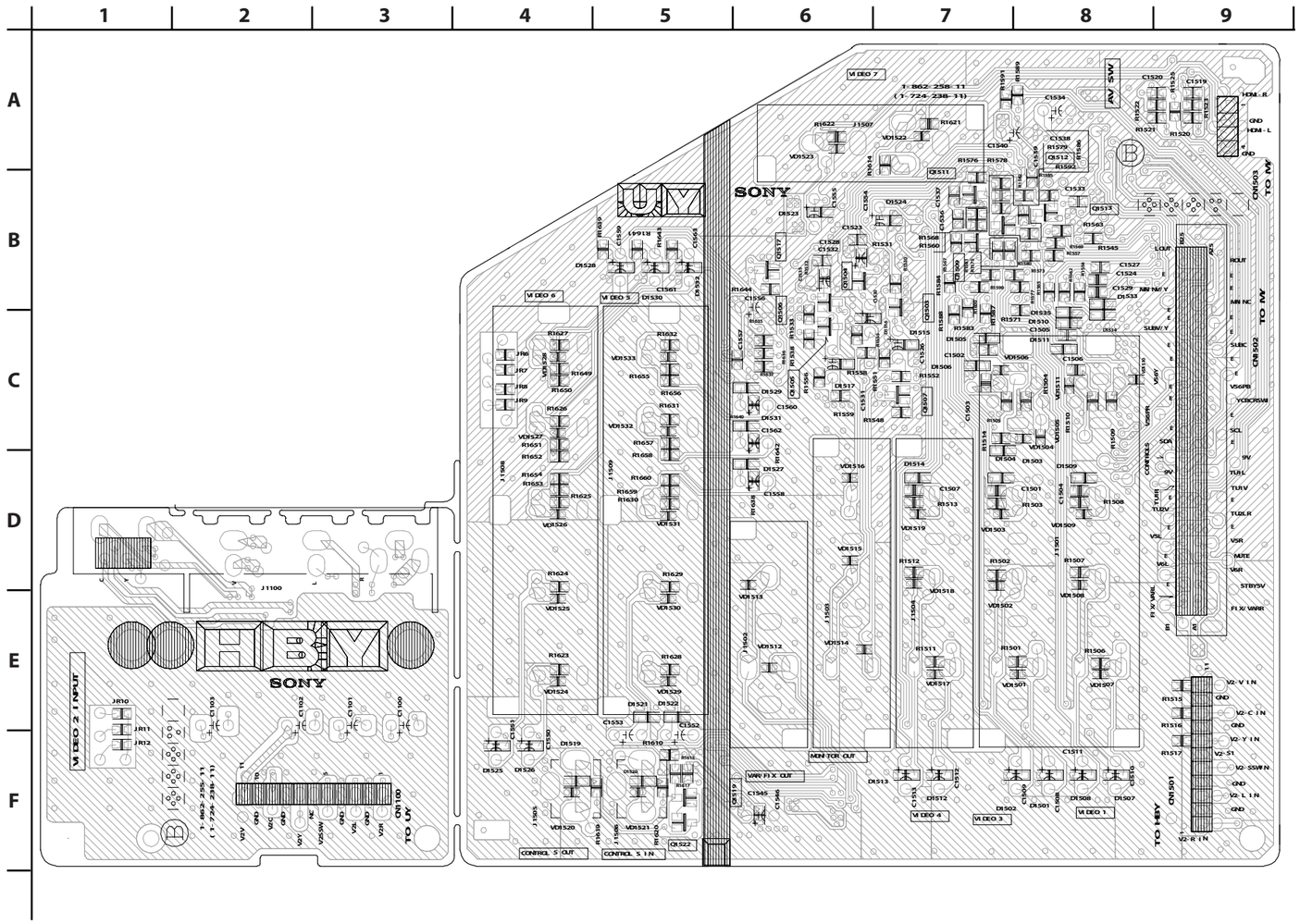
DIODE		TRANSISTOR	
D1518	E-5	Q1501	A-2
IC		Q1502	A-1
IC1502	B-2	Q1508	C-3
IC1505	C-5	Q1510	C-4
		Q1515	F-4
		Q1516	F-4
		Q1518	E-5
		Q1520	F-5
		Q1521	F-5
		Q1523	A-2
		Q1524	A-1

UY [A/V SWITCH, TERMINAL BLOCK]

CONDUCTOR SIDE

HBY [FRONT TERMINAL]

CONDUCTOR SIDE

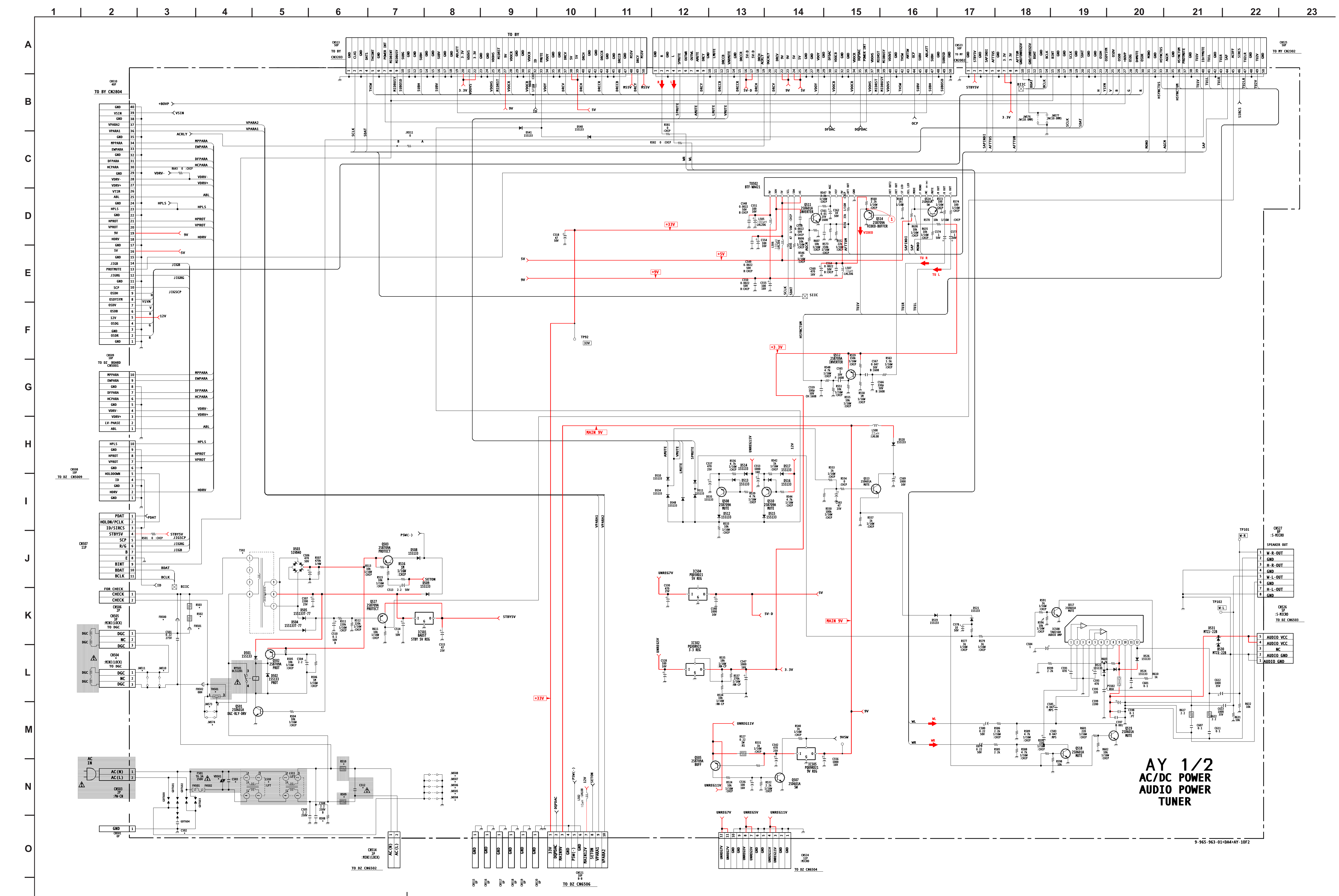


UY BOARD LOCATOR LIST
CONDUCTOR SIDE

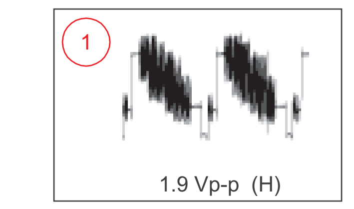
DIODE		DIODE		DIODE	
D1501	F-8	D1510	C-8	D1520	F-5
D1502	F-7	D1511	C-8	D1521	E-5
D1503	D-8	D1512	F-7	D1522	E-5
D1504	D-7	D1513	F-7	D1523	B-6
D1505	C-7	D1514	D-3	D1524	B-7
D1506	C-7	D1515	C-7	D1525	F-4
D1507	F-8	D1516	C-7	D1526	F-4
D1508	F-8	D1517	C-6	D1527	D-6
D1509	D-8	D1519	F-4	D1528	B-5

DIODE		TRANSISTOR	
D1529	C-6	Q1503	F-5
D1530	C-5	Q1504	B-6
D1531	C-6	Q1505	C-6
D1532	B-5	Q1506	C-6
D1533	E-8	Q1507	C-7
D1534	C-8	Q1509	C-7
D1535	C-8	Q1511	B-7
		Q1512	B-8
		Q1513	B-8
		Q1519	F-6
		Q1522	F-5

AY BOARD SCHEMATIC DIAGRAM (1 OF 2)


CN513 50P TO BY CN3203
CN510 40P TO BY CN2804
CN509 10P TO DZ BOARD CN5001
CN508 10P TO DZ CN5009
CN507 11P
FOR CHECK
CN506 2P
CN505 3P :MINI(LOCK) TO DGC
CN504 :MINI(LOCK) TO DGC
AC IN
CN503 2P :PW-CN
CN501 0P
CN514 2P :MINI(LOCK) TO DZ CN6502
CN521 10P B-B TO DZ CN6506
CN524 12P :MICRO TO DZ CN6504
CN523 50P TO MY CN2002
CN525 50P TO MY CN2302
CN526 5P :S-MICRO TO DZ CN6503
CN527 8P :S-MICRO SPEAKER OUT
TU502 BTF-WA421
Q511 2SD601A INVERTER
Q514 2SB709A VIDEO-BUFFER
Q524 2SD601A SW
Q512 2SB709A INVERTER
Q508 2SB709A MUTE
Q510 2SB709A MUTE
Q513 2SD601A MUTE
Q503 2SB709A PROTECT
Q527 2SB709A PROTECT
Q502 2SB709A PROT
Q501 2SD601A DGC-RLY-DRV
IC501 BA05T STBY 5V REG
IC504 PQ05RD21 5V REG
IC502 PQ30RV21 3.3 REG
IC505 PQ09RD21 9V REG
Q505 2SB709A BUFF
Q507 2SD601A SW
IC508 TA8216H AUDIO AMP
Q517 2SD601A MUTE
Q518 2SD601A MUTE
Q519 2SD601A MUTE
T502
D503 S1VB40
RY501 DLS1201
TP92 33V
TP101 W-R
TP102 W-L
+33V
+5V
+9V
+3.3V
MAIN 9V
STBY5V
AY 1/2
AC/DC POWER
AUDIO POWER
TUNER
9-965-963-01<DA4>AY-1OF2

AY BOARD WAVEFORM



AY BOARD IC VOLTAGE LIST

IC501		IC508		8	3.3
PIN	VOLT	PIN	VOLT	9	GND
I	7.0	1	1.6	IC903	
O	5.0	2	0.1	PIN	VOLT
GND	GND	3	GND	1	4.9
IC502		4	0.1	2	4.9
PIN	VOLT	5	1.6	3	4.9
I	5.0	6	7.9	4	4.9
O	3.3	7	11.0	5	N/C
GND	GND	8	5.1	6	5.0
4	3.4	9	24.0	7	5.0
IC504		10	0.0	8	5.0
PIN	VOLT	11	4.4	9	5.0
I	7.0	12	10.6	10	12.0
O	5.0	IC900		11	4.5
GND	GND	PIN	VOLT	12	5.0
4	N/C	1	3.3	13	5.0
IC505		2	3.3	14	1.2
PIN	VOLT	3	0.1	15	5.0
I	11.0	4	-15.7	16	4.6
O	9.0	5	GND	17	4.6
GND	GND	6	15.3	18	GND
4	2.3	7	N/C		

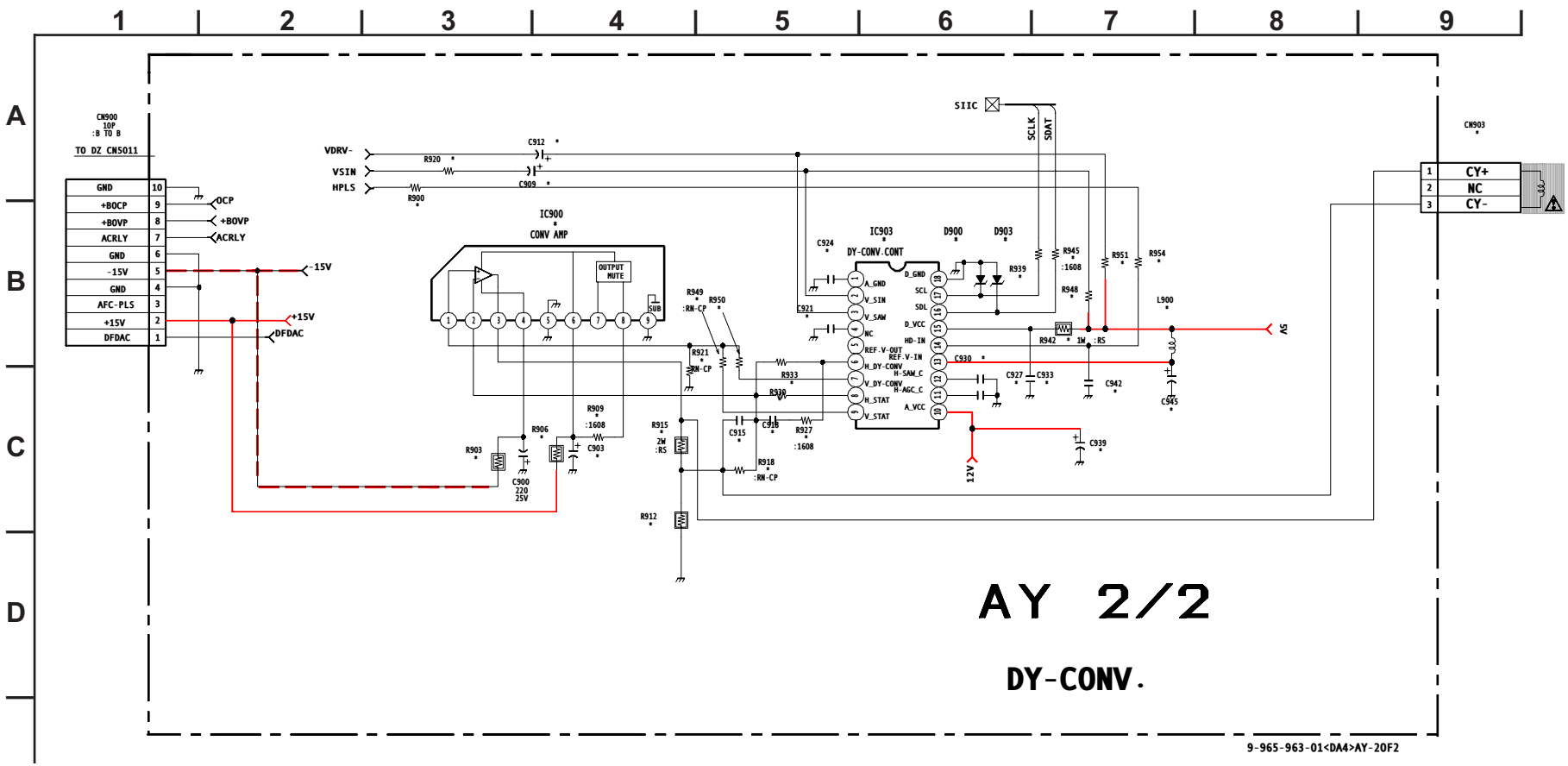
All voltages are in V.

AY BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q501	0.1	19.4	GND
Q502	21.3	19.4	21.3
Q503	21.2	0.2	21.3
Q505	10.0	0.1	11.0
Q507	0.1	2.3	GND
Q508	10.5	0.3	0.0
Q510	12.0	0.0	12.0
Q511	0.1	7.5	GND
Q512	3.3	0.5	3.3
Q513	0.0	9.0	0.0
Q514	5.9	GND	6.5
Q517	0.0	4.4	GND
Q518	0.0	0.0	GND
Q519	0.0	0.0	GND
Q524	0.7	0.1	GND
Q527	9.8	0.0	5.0

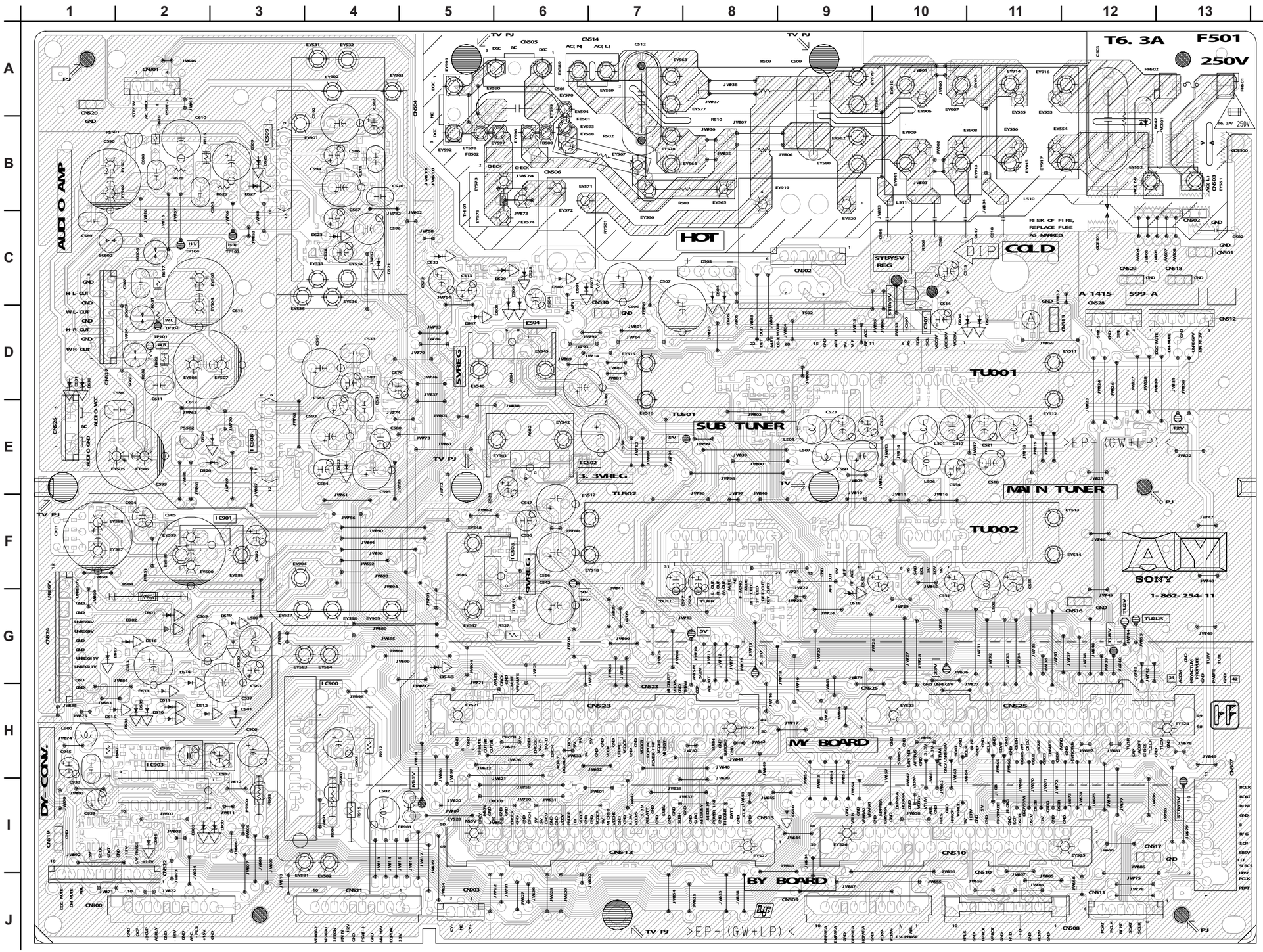
All voltages are in V.

AY BOARD SCHEMATIC DIAGRAM (2 OF 2)



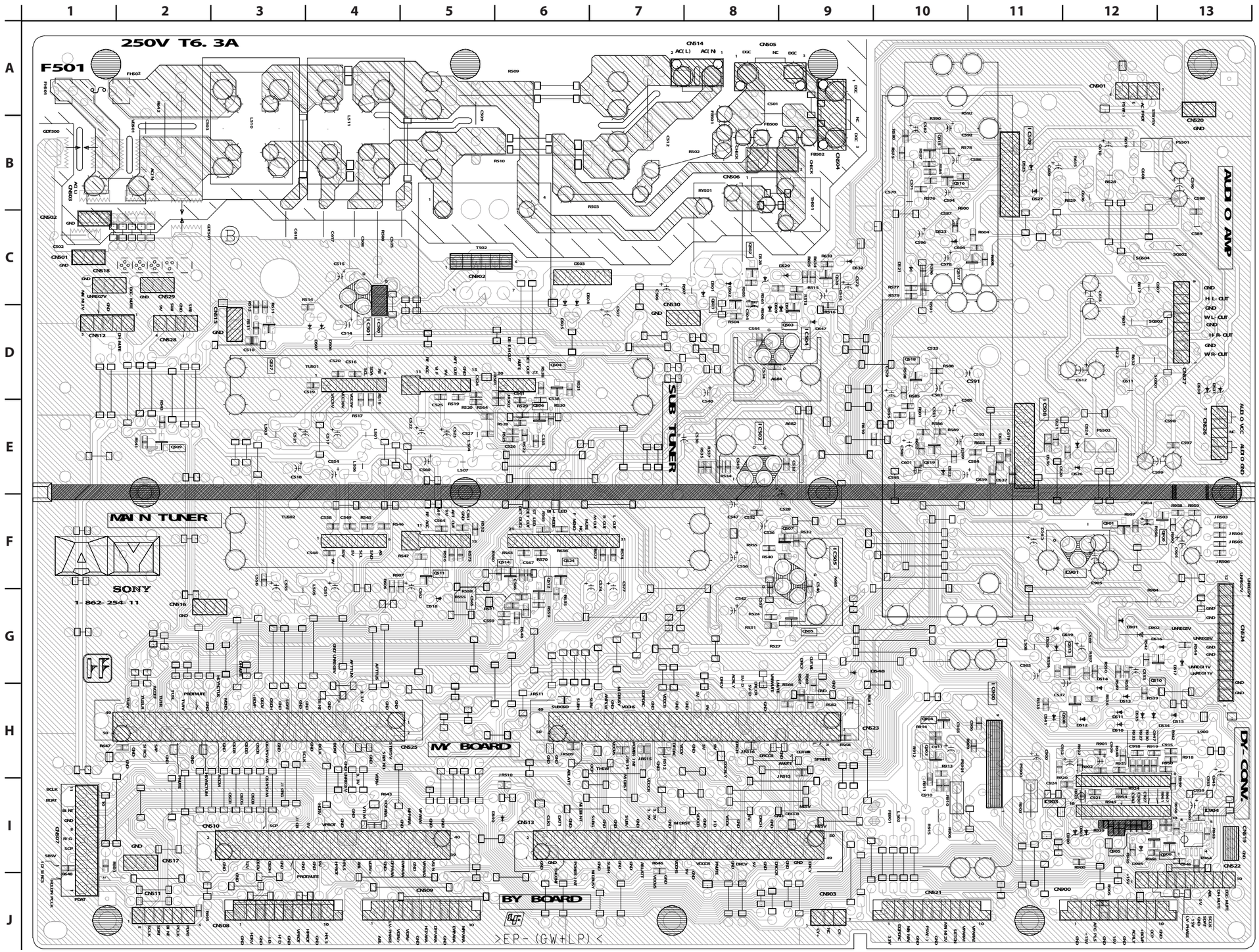
AY [AC/DC POWER, AUDIO POWER, TUNER, DY-CONV.]

COMPONENT SIDE



AY [AC/DC POWER, AUDIO POWER, TUNER, DY CONV.]

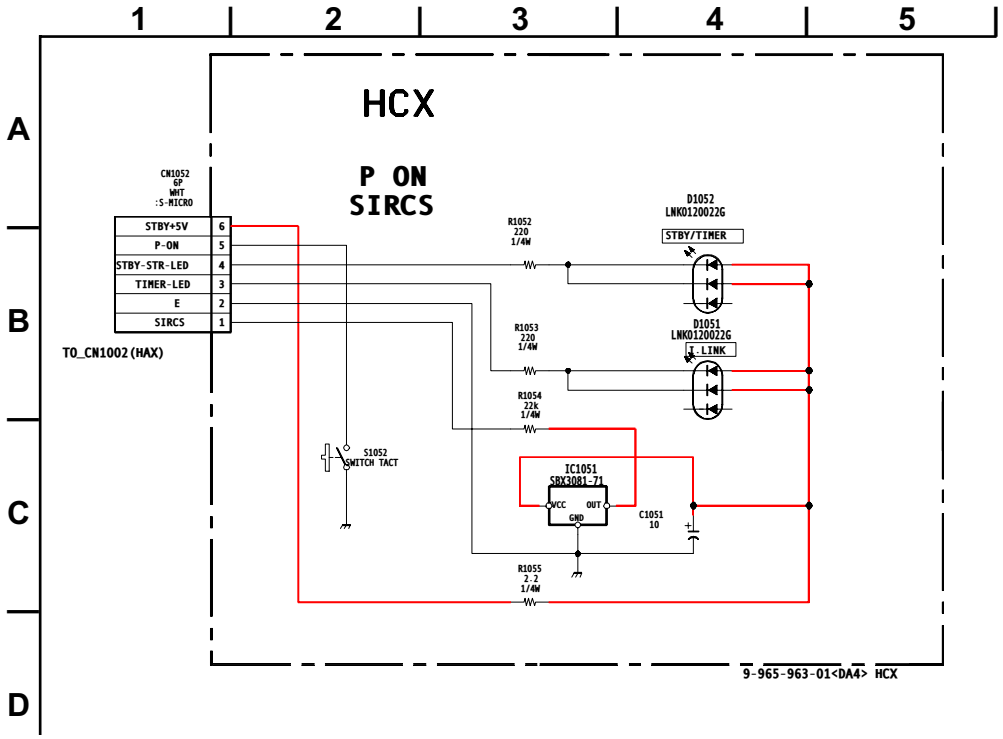
CONDUCTOR SIDE



AY BOARD LOCATOR LIST
CONDUCTOR SIDE

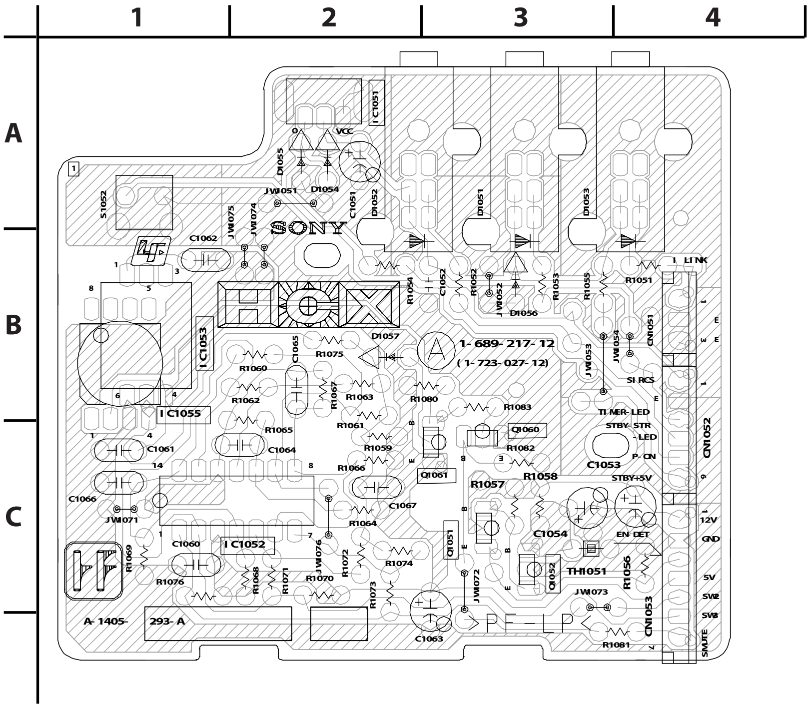
DIODE		IC	
D501	C-8	IC501	C-8
D502	C-8	IC502	C-8
D503	C-6	IC504	D-9
D504	C-7	IC505	F-9
D505	D-6	IC508	E-11
D508	C-9	IC900	G-10
D509	C-9	IC903	I-11
D510	H-12	**TRANSISTOR**	
D511	H-12	Q501	C-8
D512	H-12	Q502	C-8
D513	G-12	Q503	D-9
D514	G-12	Q505	G-9
D515	H-13	Q507	F-9
D516	G-13	Q508	H-12
D517	G-13	Q510	G-12
D519	G-12	Q511	F-5
D520	G-12	Q512	F-6
D521	C-10	Q513	G-11
D522	E-10	Q514	F-6
D524	E-12	Q517	C-10
D526	E-12	Q518	D-10
D530	D-13	Q519	E-10
D531	D-13	Q524	F-6
D534	H-12	Q527	D-3
D535	H-11		
D540	I-6		
D541	H-11		
D900	I-11		
D903	I-12		

HCX BOARD SCHEMATIC DIAGRAM



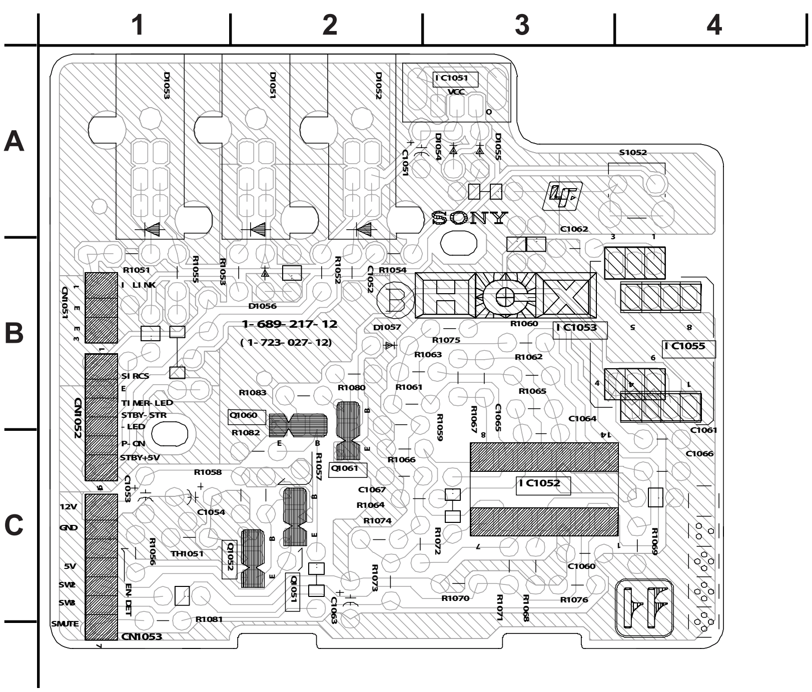
HCX [P ON, SIRCS]

COMPONENT SIDE


1
2
3
4
A
B
C
S1052
JW1051
JW1075
JW1074
D1055
D1054
VCC
IC1051
C1051
D1052
D1051
D1053
SONY
C1062
R1054
C1052
R1052
JW1052
D1056
R1053
R1055
R1051
I LINK
CN1051
IC1053
C1065
R1075
D1057
1-689-217-12
(1-723-027-12)
JW1053
JW1054
SIRCS
R1060
R1062
R1067
R1063
R1080
R1083
TIMER-LED
STBY-STR
-LED
P-ON
STBY+5V
CN1052
IC1055
R1065
R1061
Q1060
C1061
C1064
R1059
R1082
C1053
R1066
Q1061
R1057
R1058
C1066
JW1071
C1067
R1064
C1054
EN-DET
12V
GND
C1060
IC1052
JW1076
R1072
R1074
Q1051
TH1051
R1056
Q1052
5V
SW2
SW3
R1069
R1076
R1068
R1071
R1070
R1073
JW1072
JW1073
CN1053
A-1405-
293-A
C1063
R1081
SMUTE

HCX [P ON, SIRCS]

CONDUCTOR SIDE


1
2
3
4
A
B
C
D1053
D1051
D1052
IC1051
VCC
C1051
D1054
D1055
S1052
SONY
C1062
R1051
I LINK
R1055
R1053
R1052
C1052
R1054
CN1051
D1056
1-689-217-12
(1-723-027-12)
D1057
R1075
R1063
R1060
IC1053
IC1055
R1062
SIRCS
TIMER-LED
STBY-STR
-LED
P-ON
STBY+5V
CN1052
R1083
R1080
R1061
R1065
Q1060
R1082
R1059
R1067
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C1053
C1067
C1054
R1064
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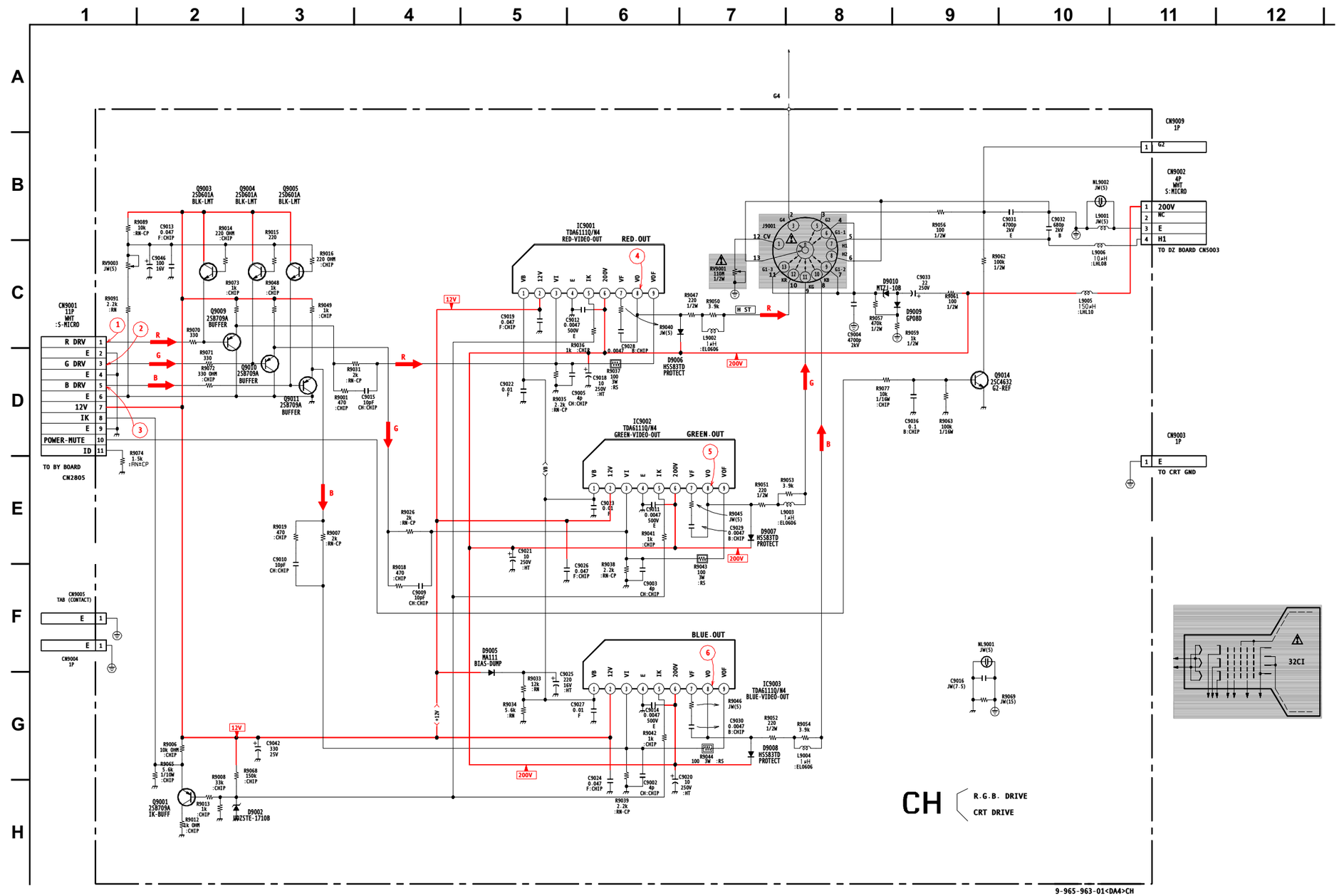
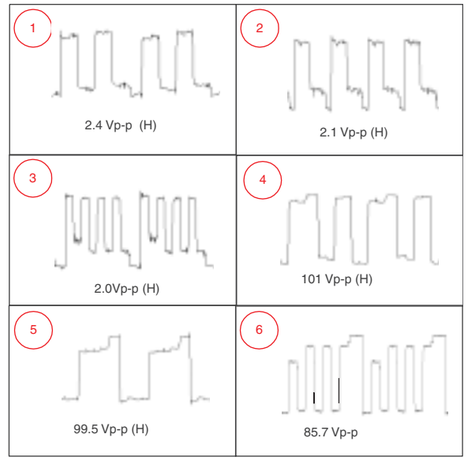
GND
R1056
TH1051
Q1052
R1072
5V
SW2
SW3
SMUTE
EN-DET
Q1051
R1073
C1060
R1069
R1081
C1063
R1070
R1071
R1068
R1076
CN1053

CH BOARD SCHEMATIC DIAGRAM



CH BOARD WAVEFORMS



CH BOARD IC VOLTAGE LIST

IC9001		IC9002		IC9003	
PIN	VOLT	PIN	VOLT	PIN	VOLT
1	3.5	1	3.5	1	3.5
2	12.0	2	12.0	2	12.0
3	3.5	3	3.5	3	3.5
4	GND	4	GND	4	GND
5	9.4	5	9.2	5	9.2
6	200.0	6	200.0	6	200.0
7	32.1	7	124.5	7	3.0
8	144.4	8	154.0	8	145.0
9	2.2	9	124.0	9	24.5

All voltages are in V.

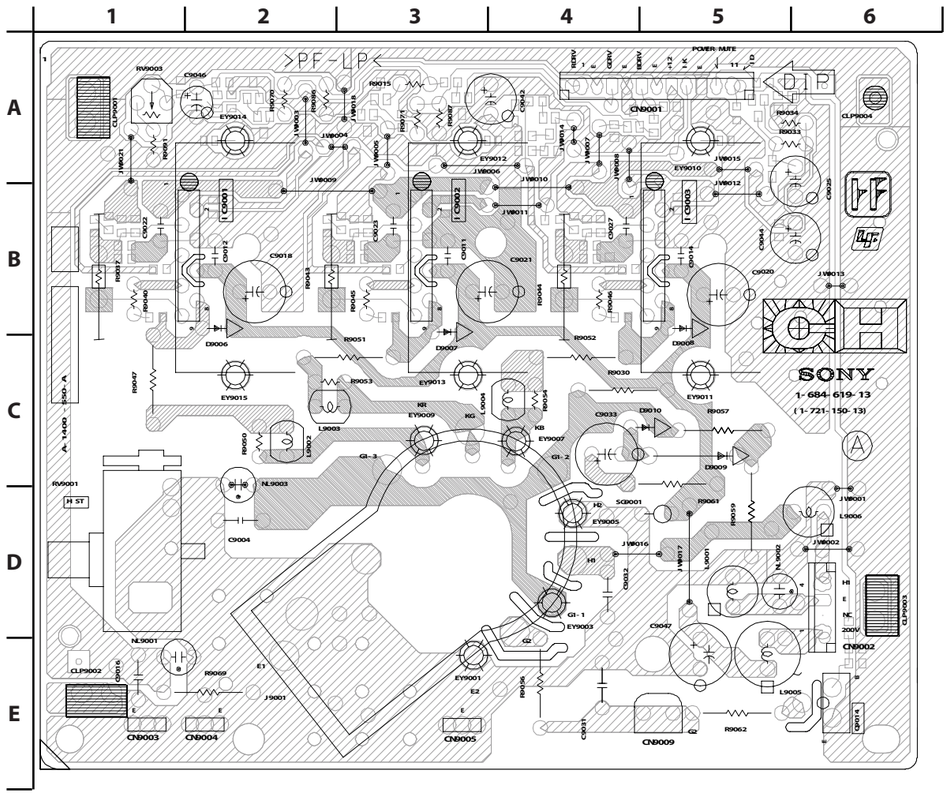
CH BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q9001	8.6	GND	3.6
Q9003	2.2	12.0	3.6
Q9004	2.2	12.0	3.7
Q9005	2.2	12.0	3.5
Q9007	9.1	12.0	8.4
Q9009	3.7	GND	4.3
Q9010	3.7	GND	4.4
Q9011	3.5	GND	4.2
Q9014	0.0	264.7	GND

All voltages are in V.

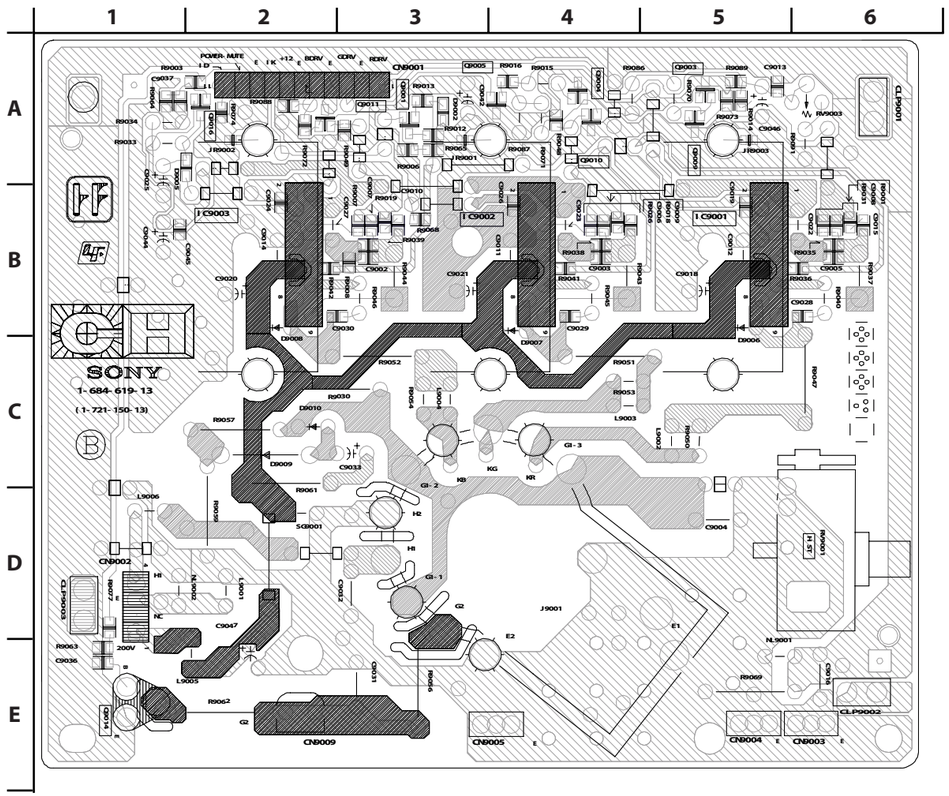
CH [R.G.B. DRIVE, CRT DRIVE]

COMPONENT SIDE

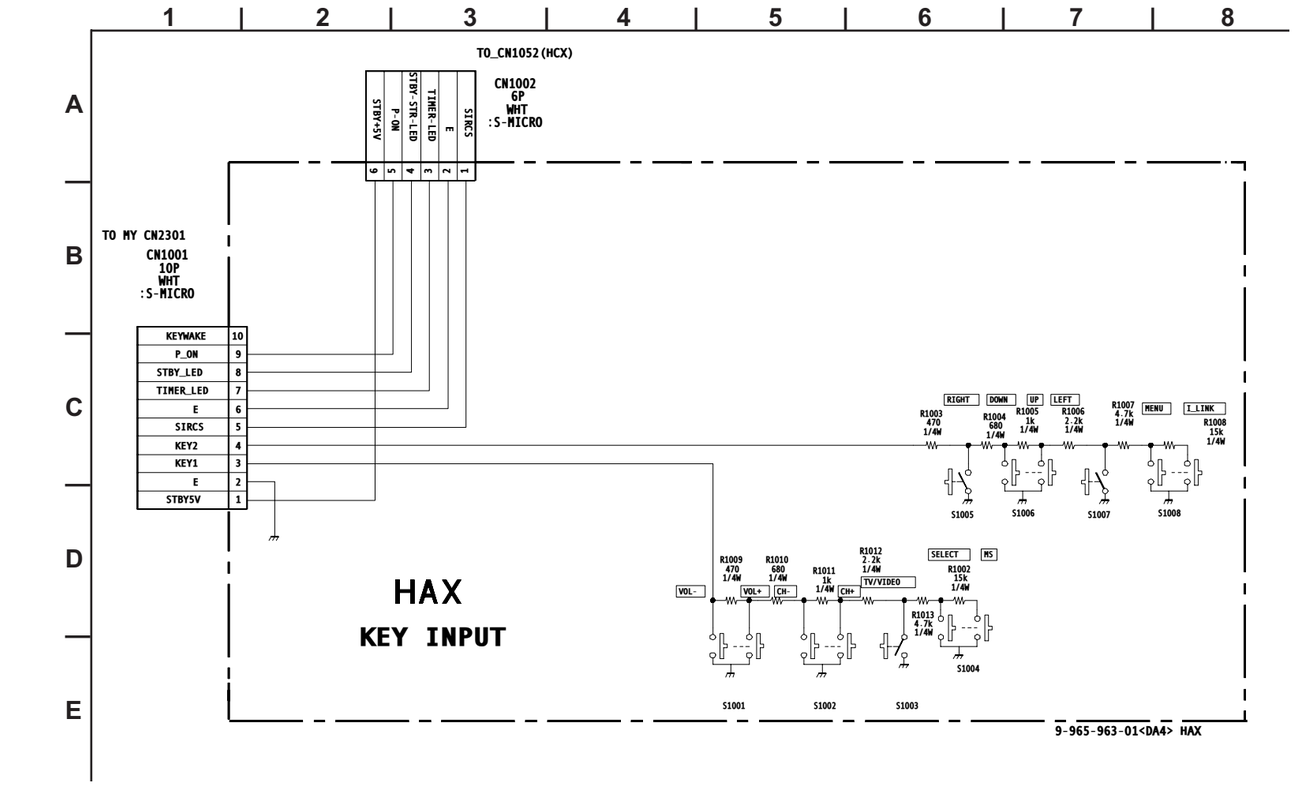


CH [R.G.B. DRIVE, CRT DRIVE]

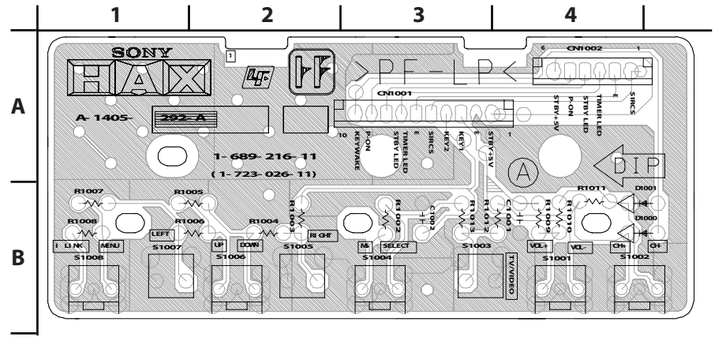
CONDUCTOR SIDE



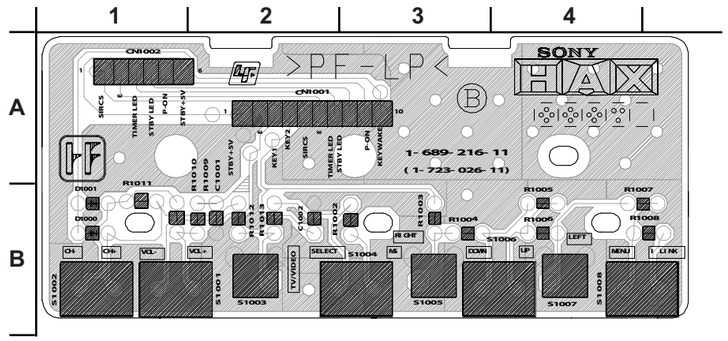
HAX BOARD SCHEMATIC DIAGRAM



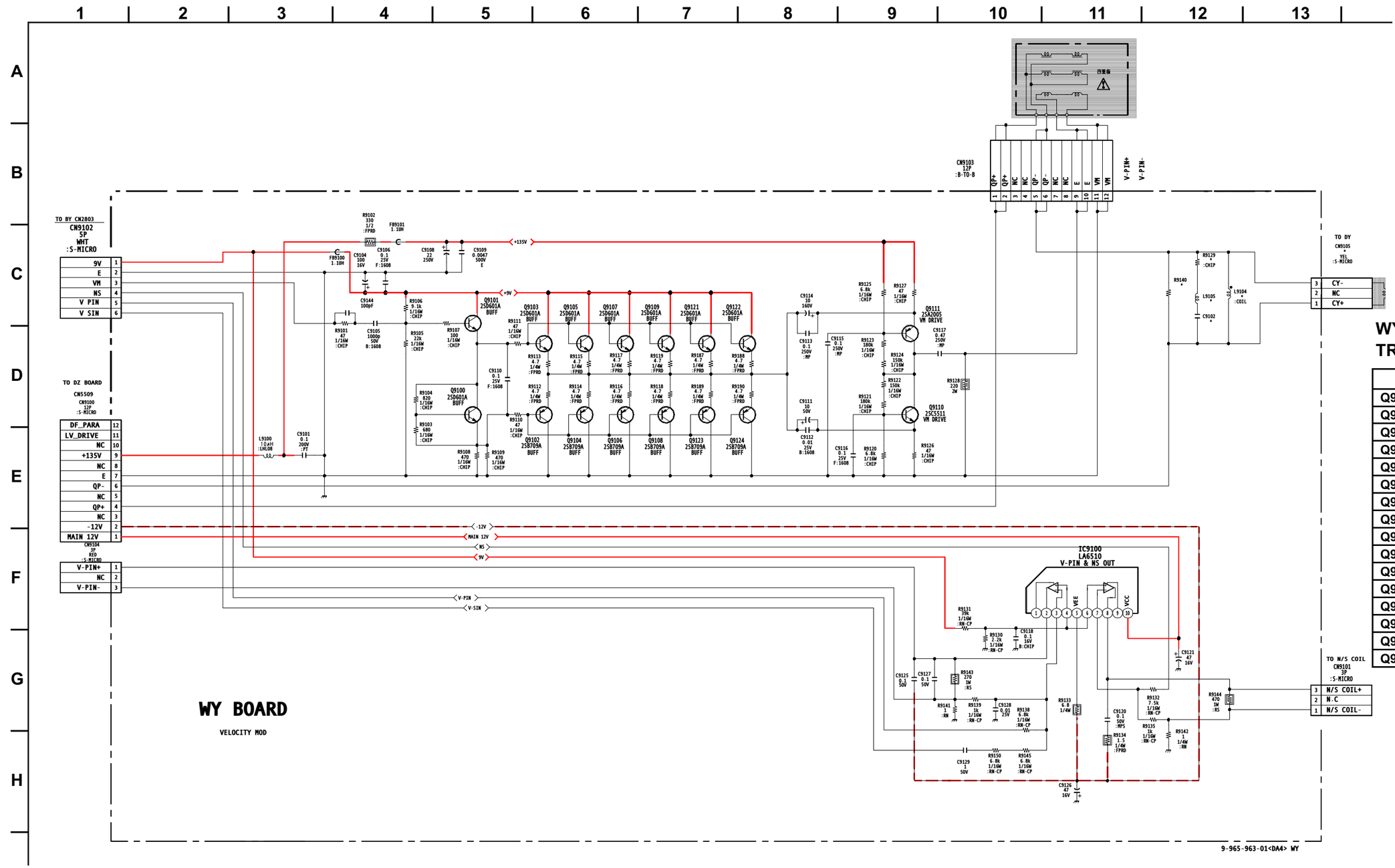
HAX [KEY INPUT] COMPONENT SIDE



HAX [KEY INPUT] CONDUCTOR SIDE



WY BOARD SCHEMATIC DIAGRAM



WY BOARD IC VOLTAGE LIST

IC9100	
PIN	VOLT
1	NC
2	0.0
3	0.0
4	0.5
5	-12.0
6	0.5
7	0.5
8	0.0
9	NC
10	12.0

All voltages are in V.

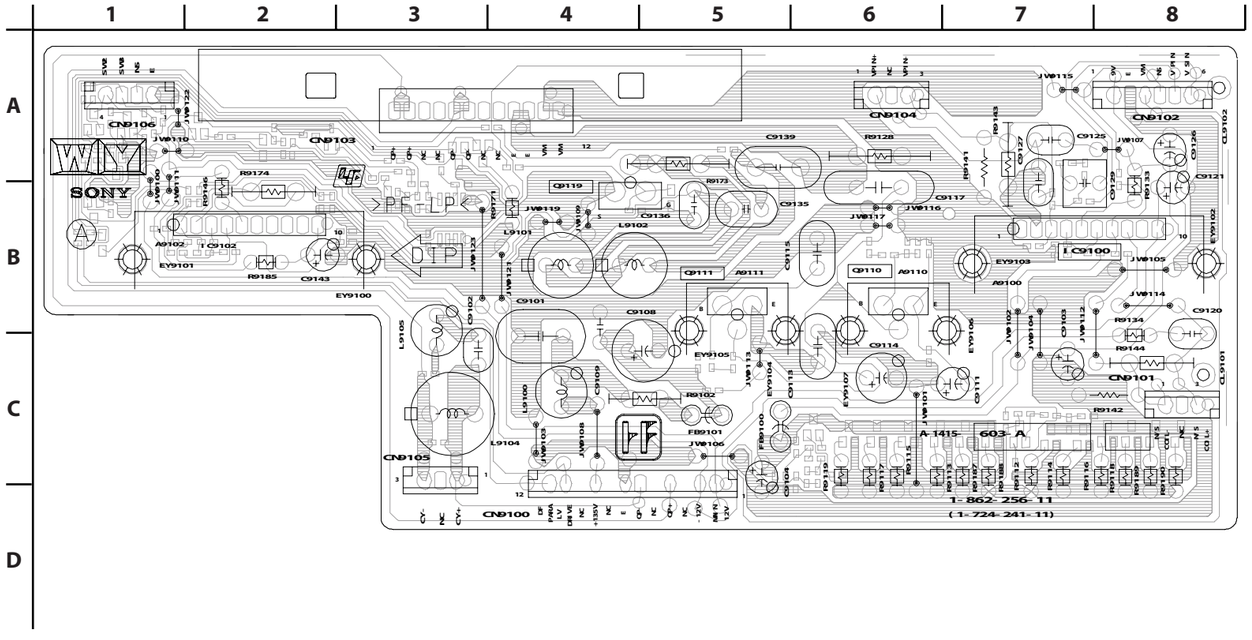
WY BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q9100	4.3	5.2	3.6
Q9101	0.0	9.0	5.2
Q9102	3.6	GND	4.3
Q9103	5.1	9.0	4.5
Q9104	3.6	GND	4.3
Q9105	5.1	9.0	4.5
Q9106	3.6	GND	4.3
Q9107	5.1	9.0	4.5
Q9108	3.6	GND	4.3
Q9109	5.1	9.0	4.5
Q9110	0.8	66.7	0.2
Q9111	133.8	66.7	134.3
Q9121	5.1	9.0	4.5
Q9122	5.1	9.0	4.5
Q9123	3.6	GND	4.3
Q9124	3.6	GND	4.3

All voltages are in V.

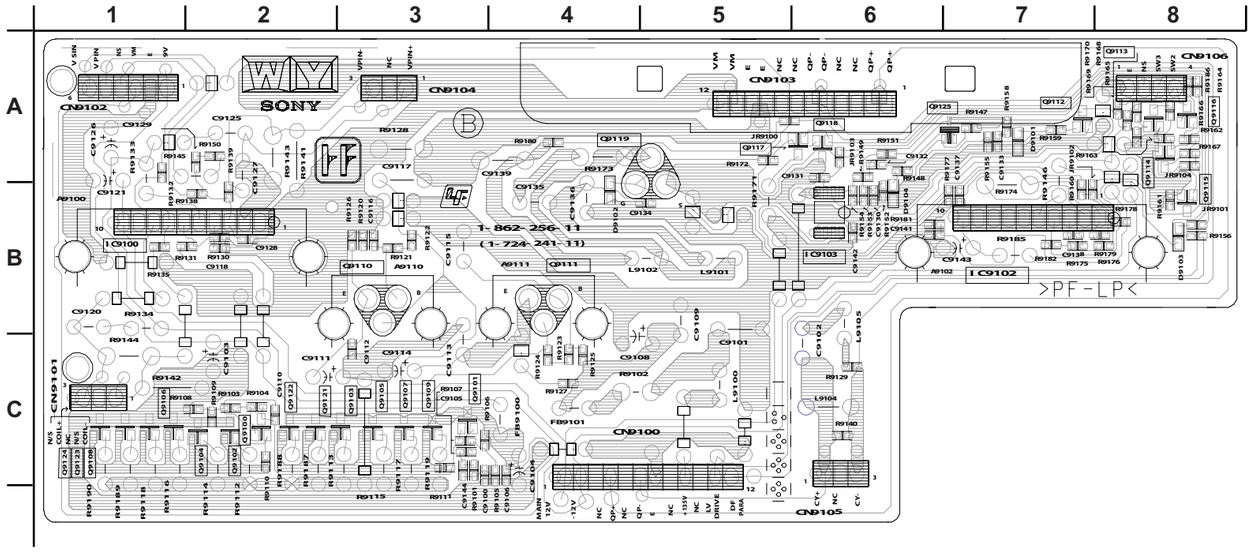
WY [VELOCITY MOD]

COMPONENT SIDE



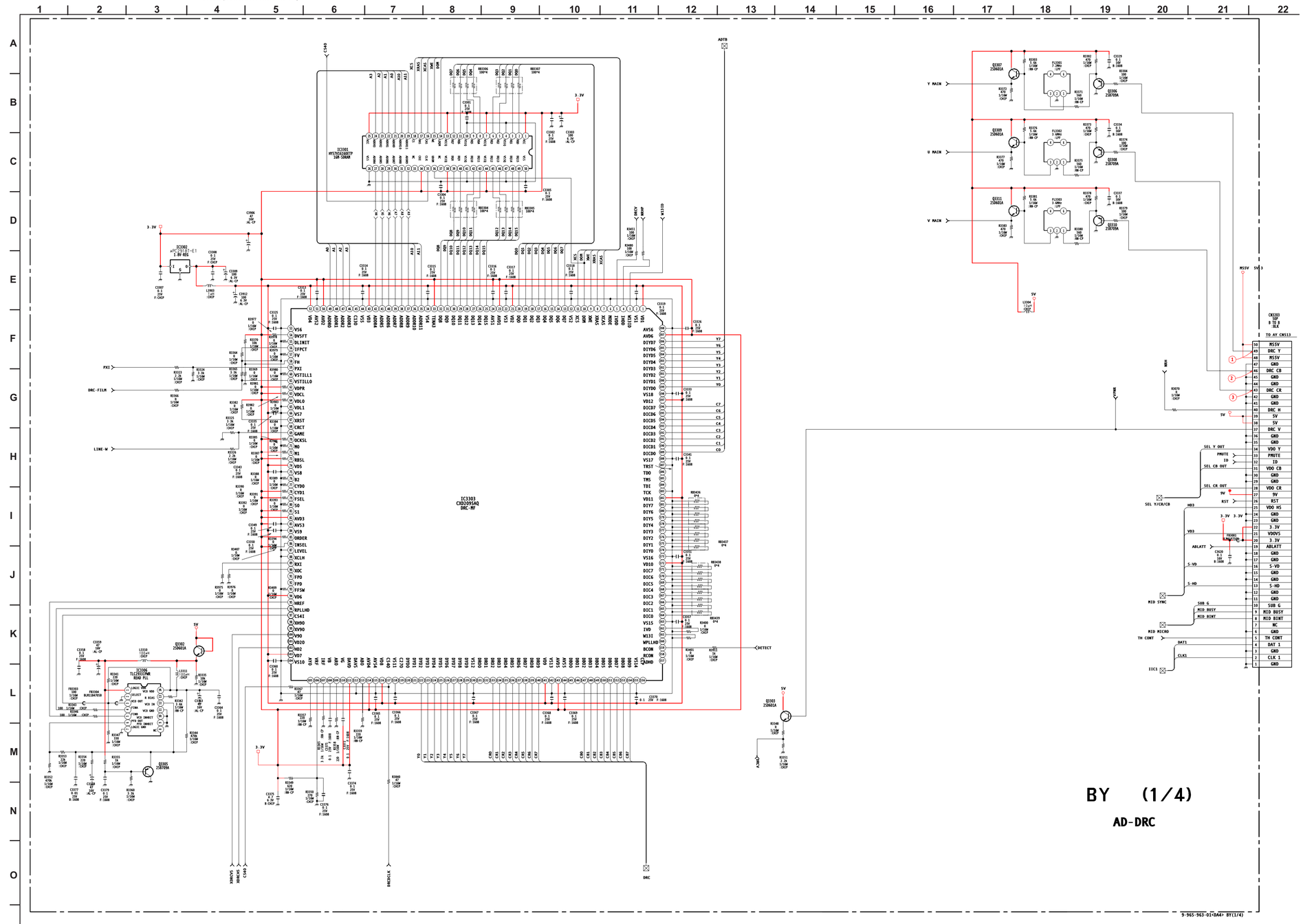
WY [VELOCITY MOD]

CONDUCTOR SIDE



BY BOARD SCHEMATIC DIAGRAM (1 OF 4)

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.



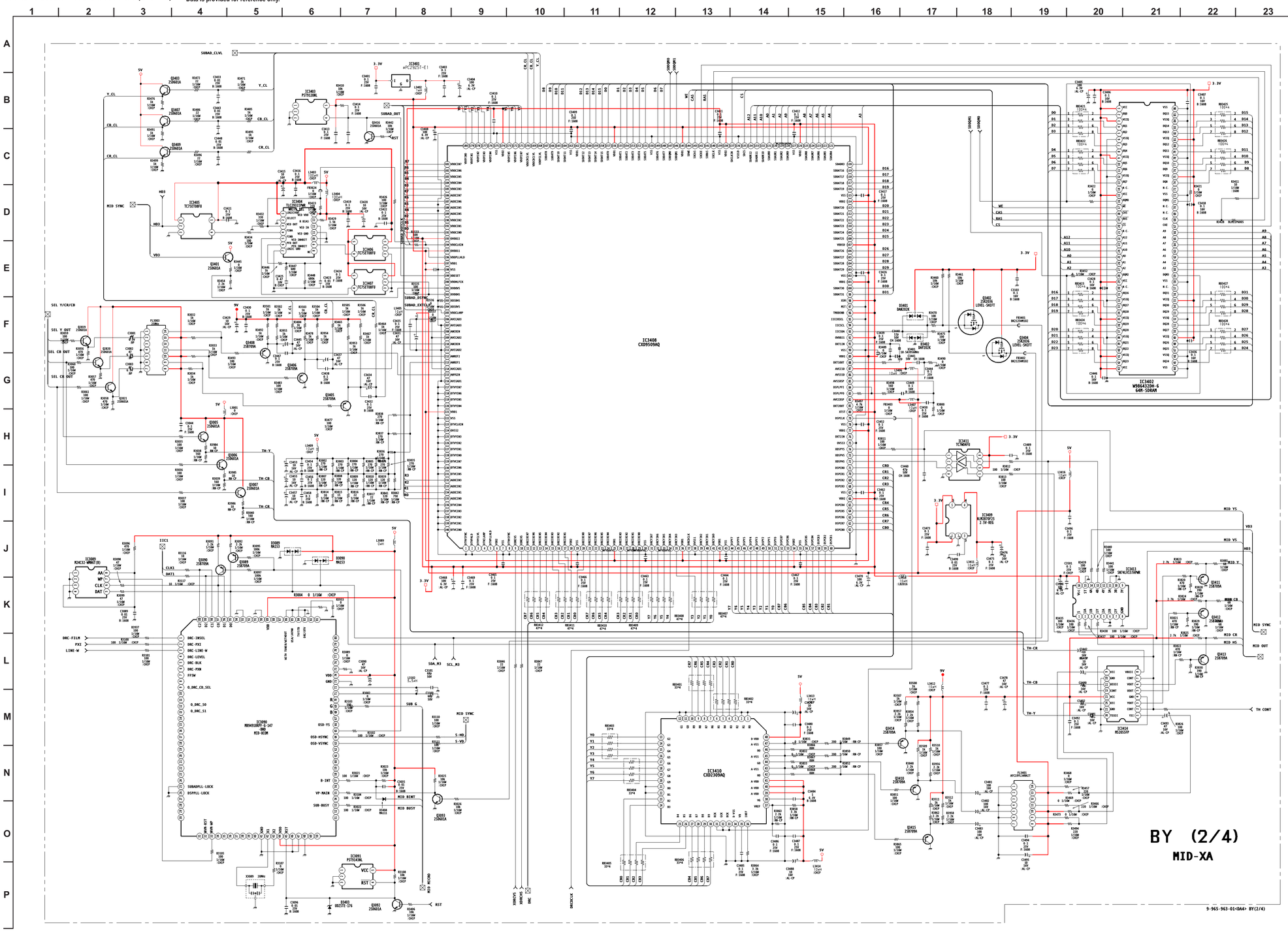
BY (1/4)

AD-DRC

BY BOARD WAVEFORMS

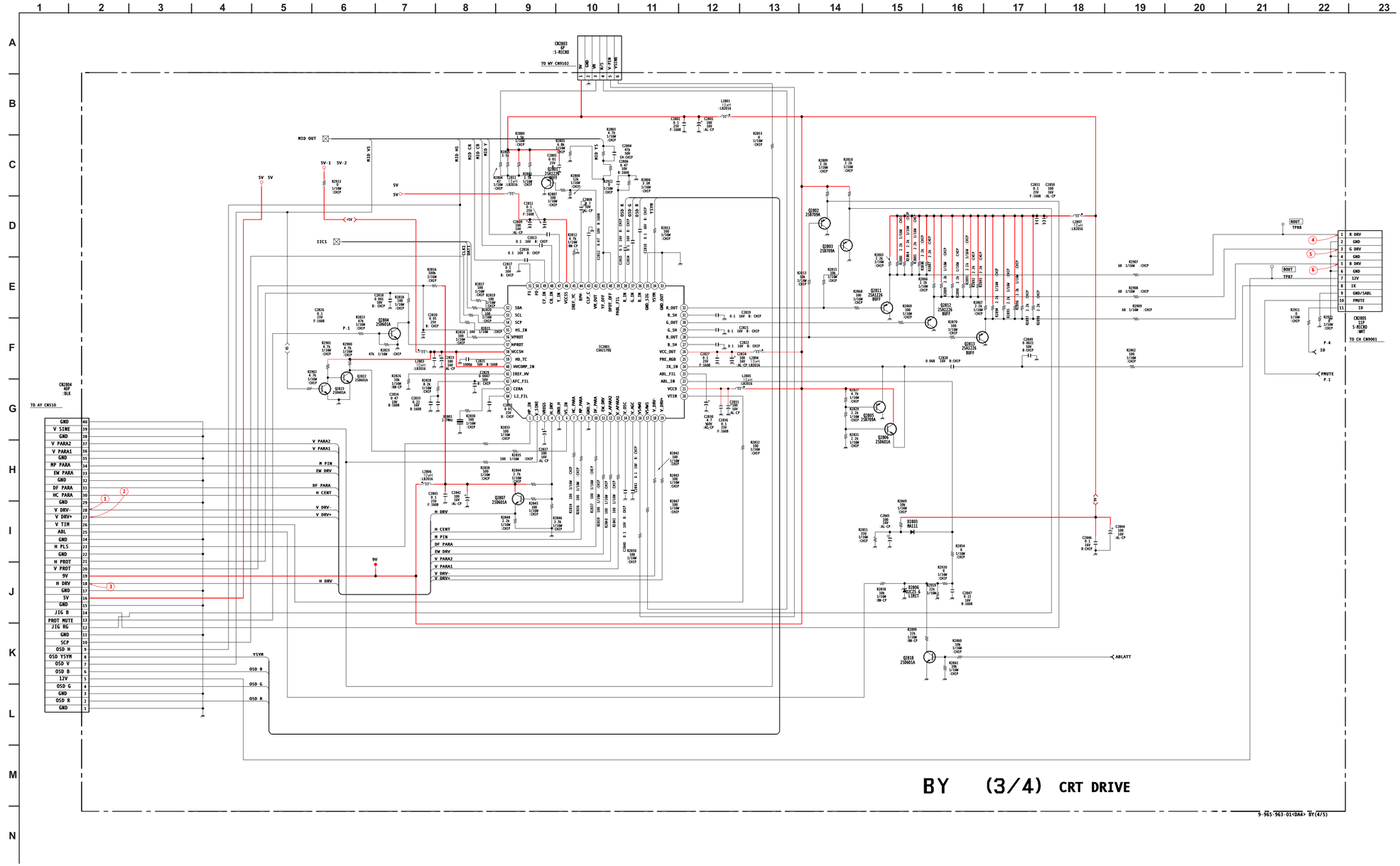
BY BOARD SCHEMATIC DIAGRAM (2 OF 4)

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.



BY BOARD SCHEMATIC DIAGRAM (3 OF 4)

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.



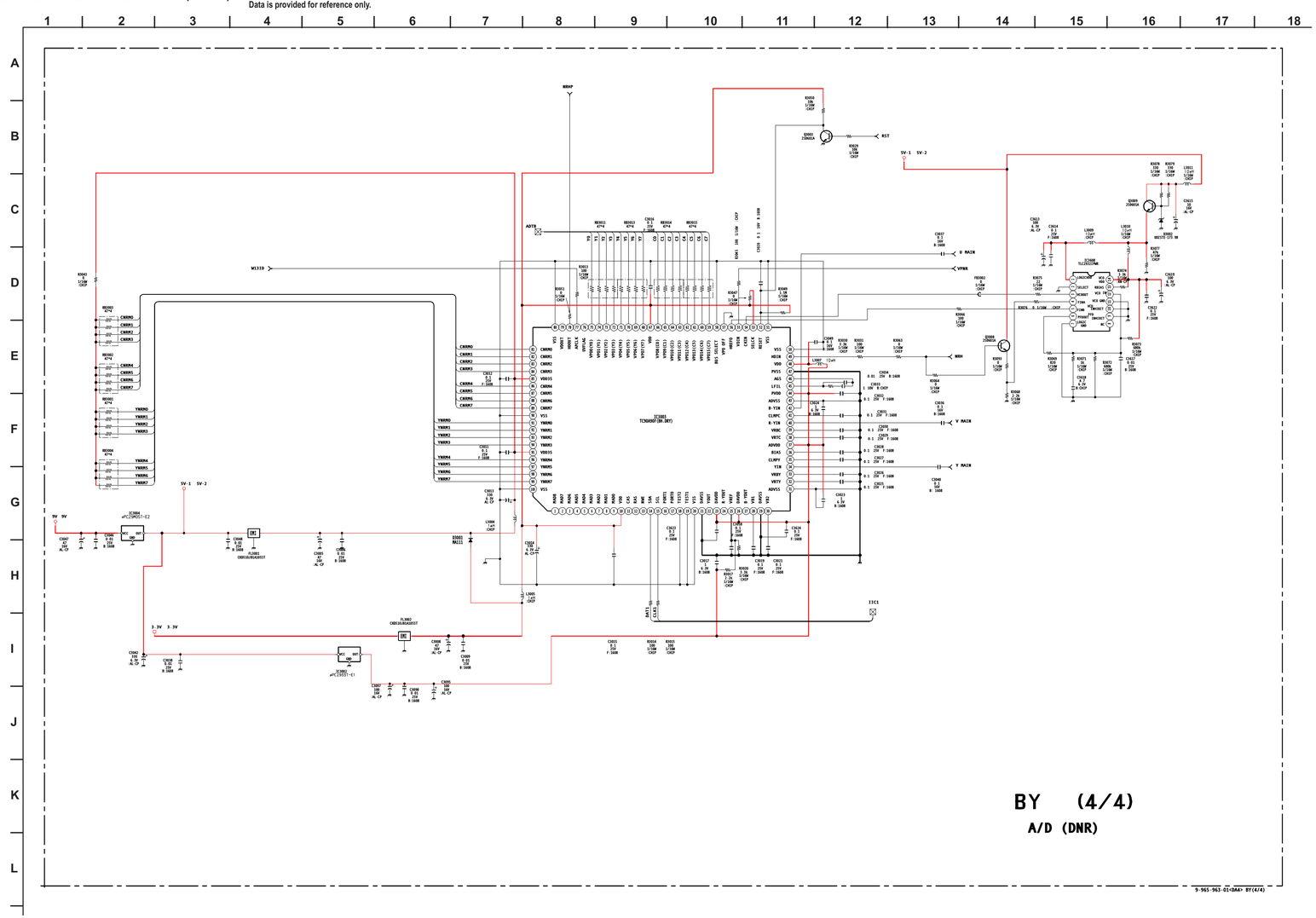
BY (3/4) CRT DRIVE

BY BOARD WAVEFORMS

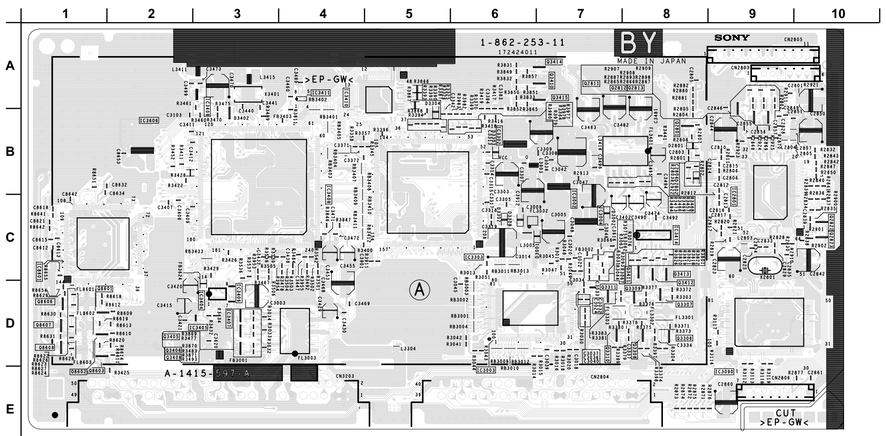
1 — 1.5 Vp-p (V)	2 — 1.7 Vp-p (V).
3 — 2.9 Vp-p (H)	4 — 3.0 Vp-p (V)
5 — 2.3 Vp-p (V).	6 — 2.4 Vp-p (H)

BY BOARD SCHEMATIC DIAGRAM (4 OF 4)

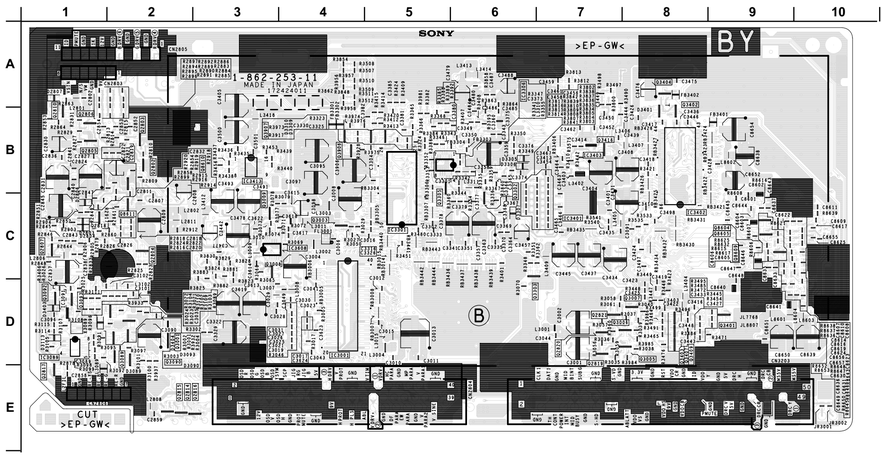
Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.



BY [AD-DRC, MID-XA, CRT DRIVE, A/D (DNR)]
COMPONENT SIDE

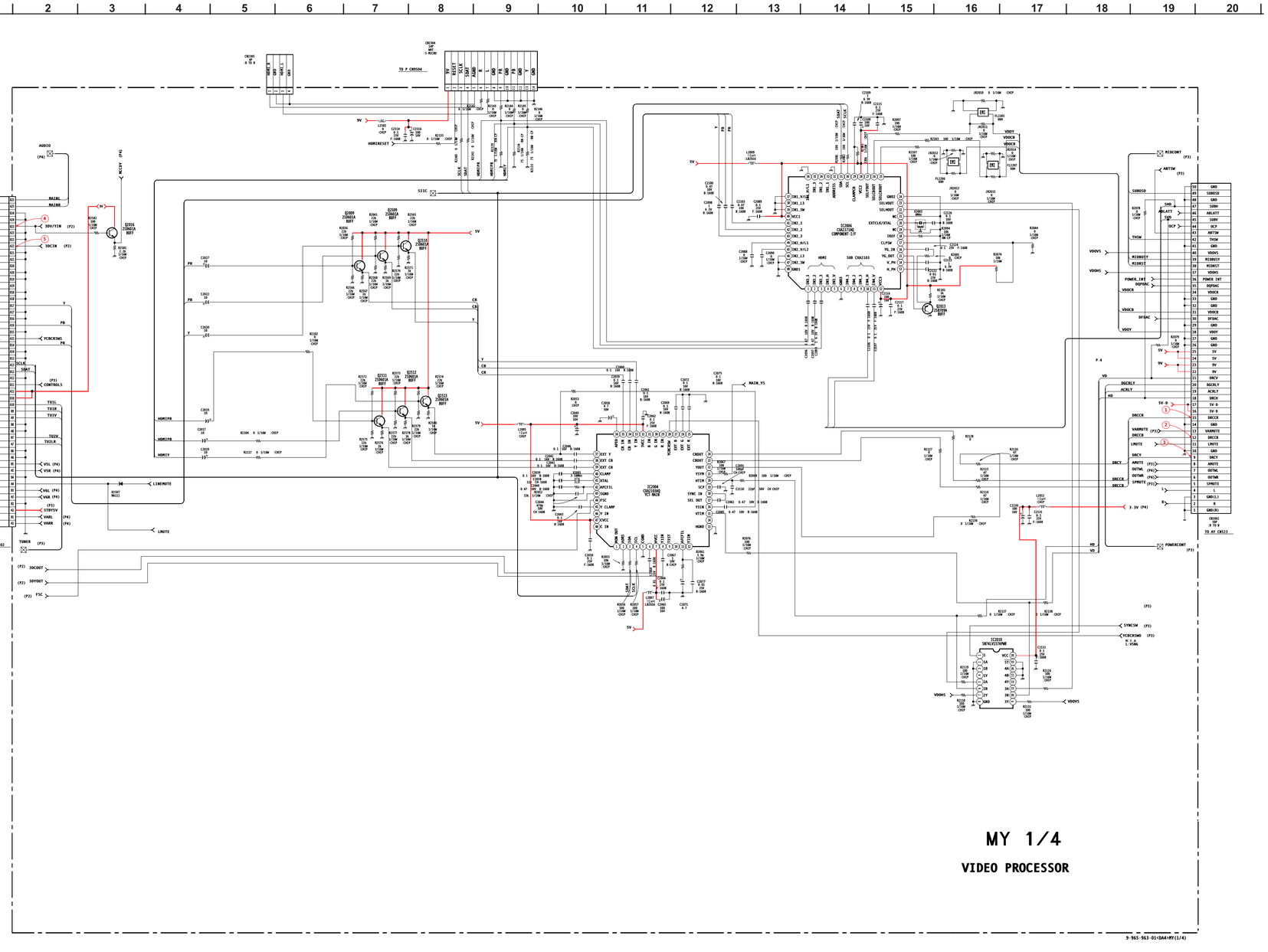


BY [AD-DRC, MID-XA, CRT DRIVE, A/D (DNR)]
CONDUCTOR SIDE

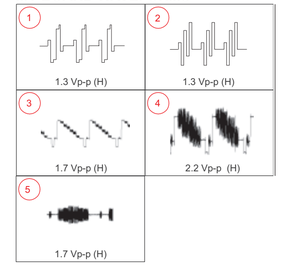


MY BOARD SCHEMATIC DIAGRAM (1 OF 4)

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.

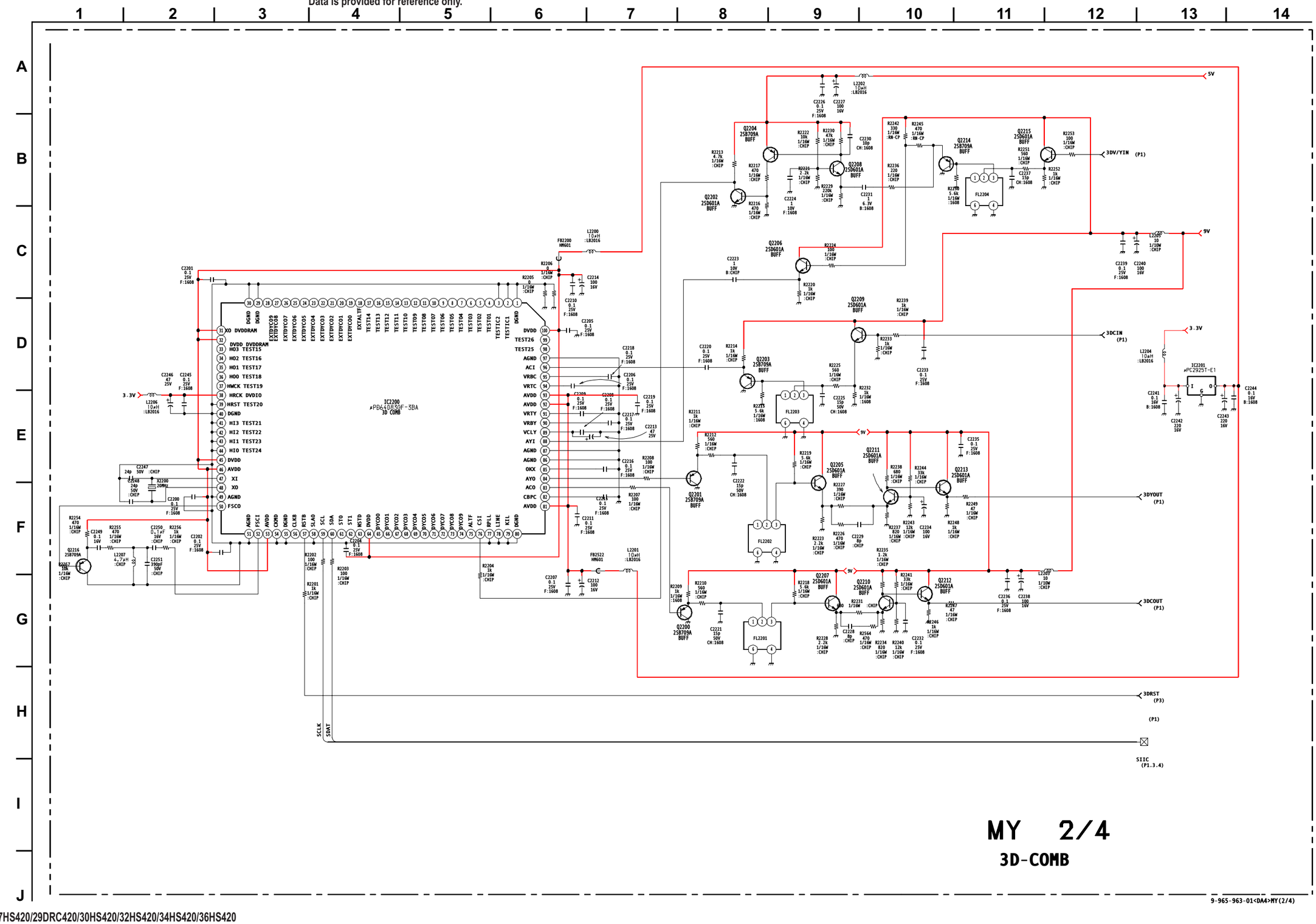


MY BOARD WAVEFORMS



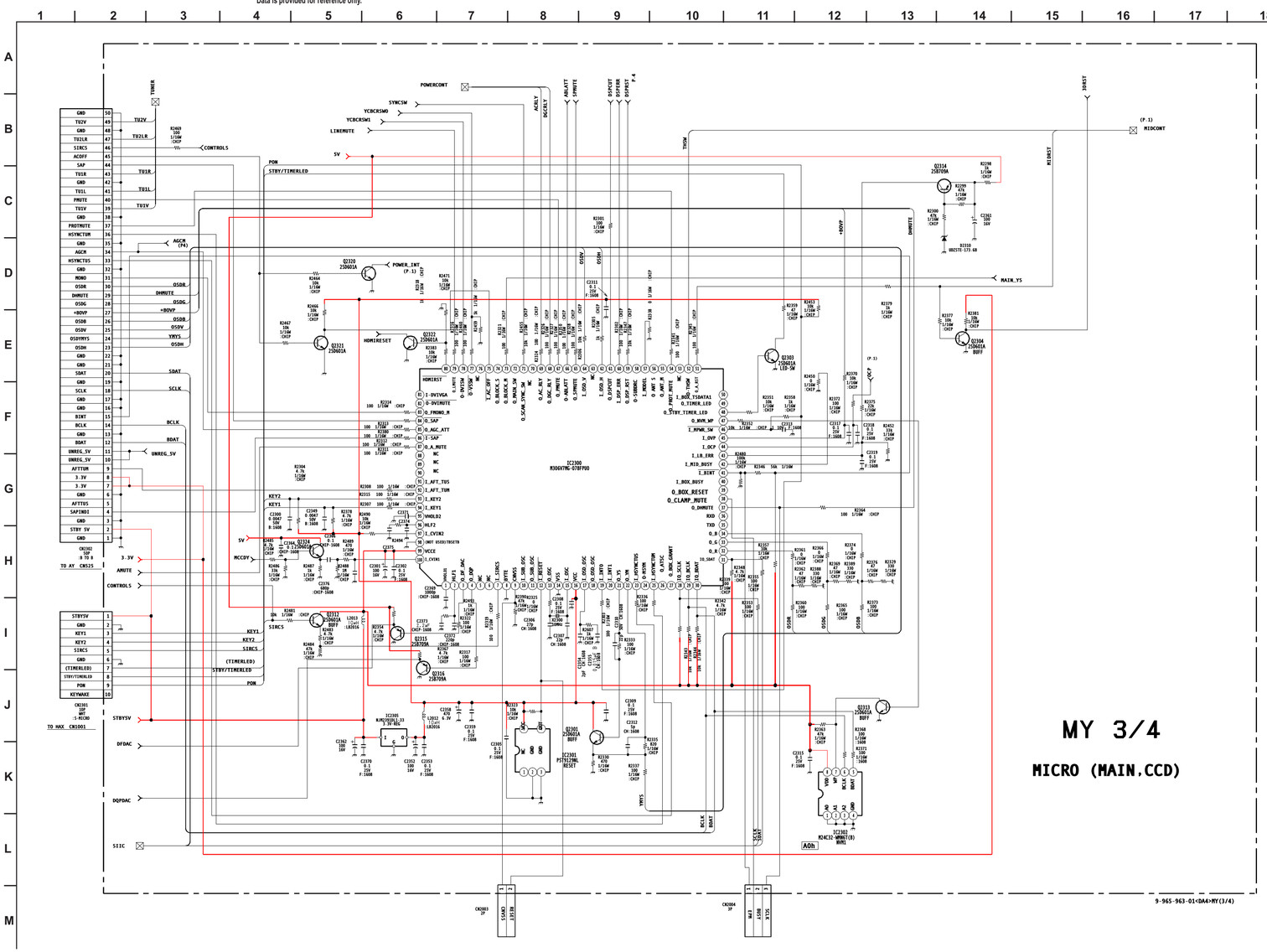
MY BOARD SCHEMATIC DIAGRAM (2 OF 4)

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.



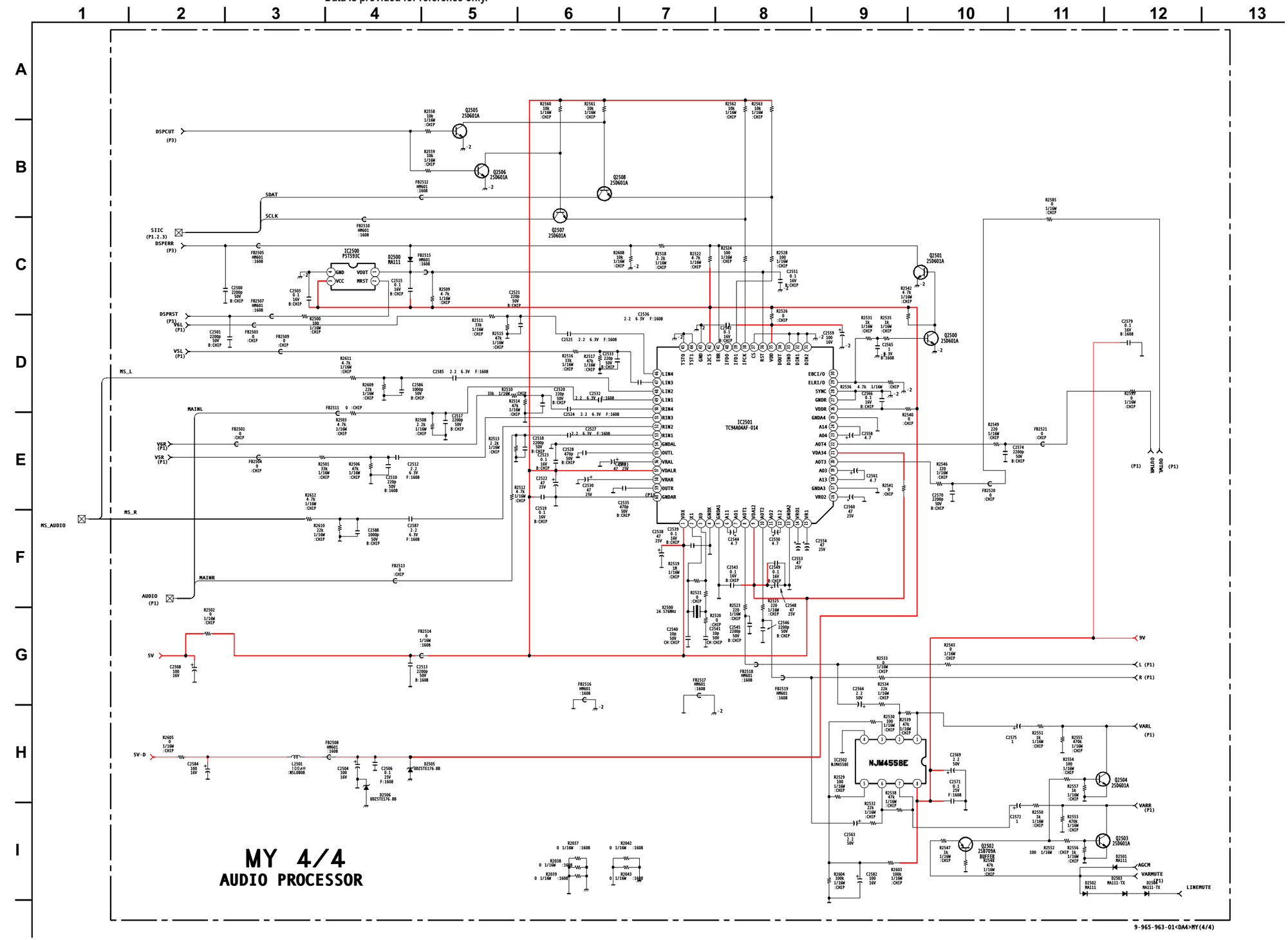
MY BOARD SCHEMATIC DIAGRAM (3 OF 4)

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.



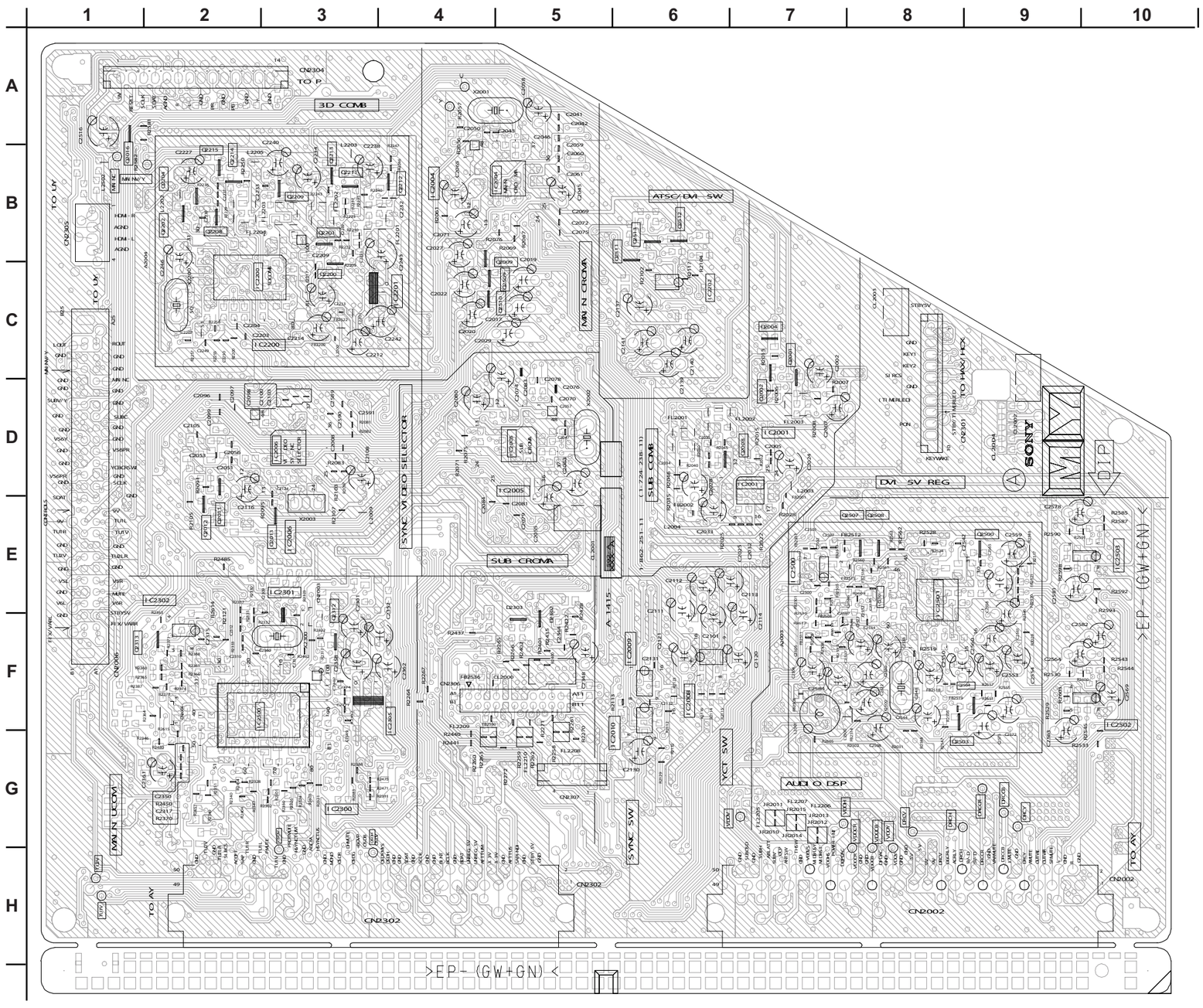
MY BOARD SCHEMATIC DIAGRAM (4 OF 4)

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.



MY [VIDEO PROCESSOR, 3D-COMB, MICRO (MAIN, CCD), AUDIO PROCESSOR]

COMPONENT SIDE

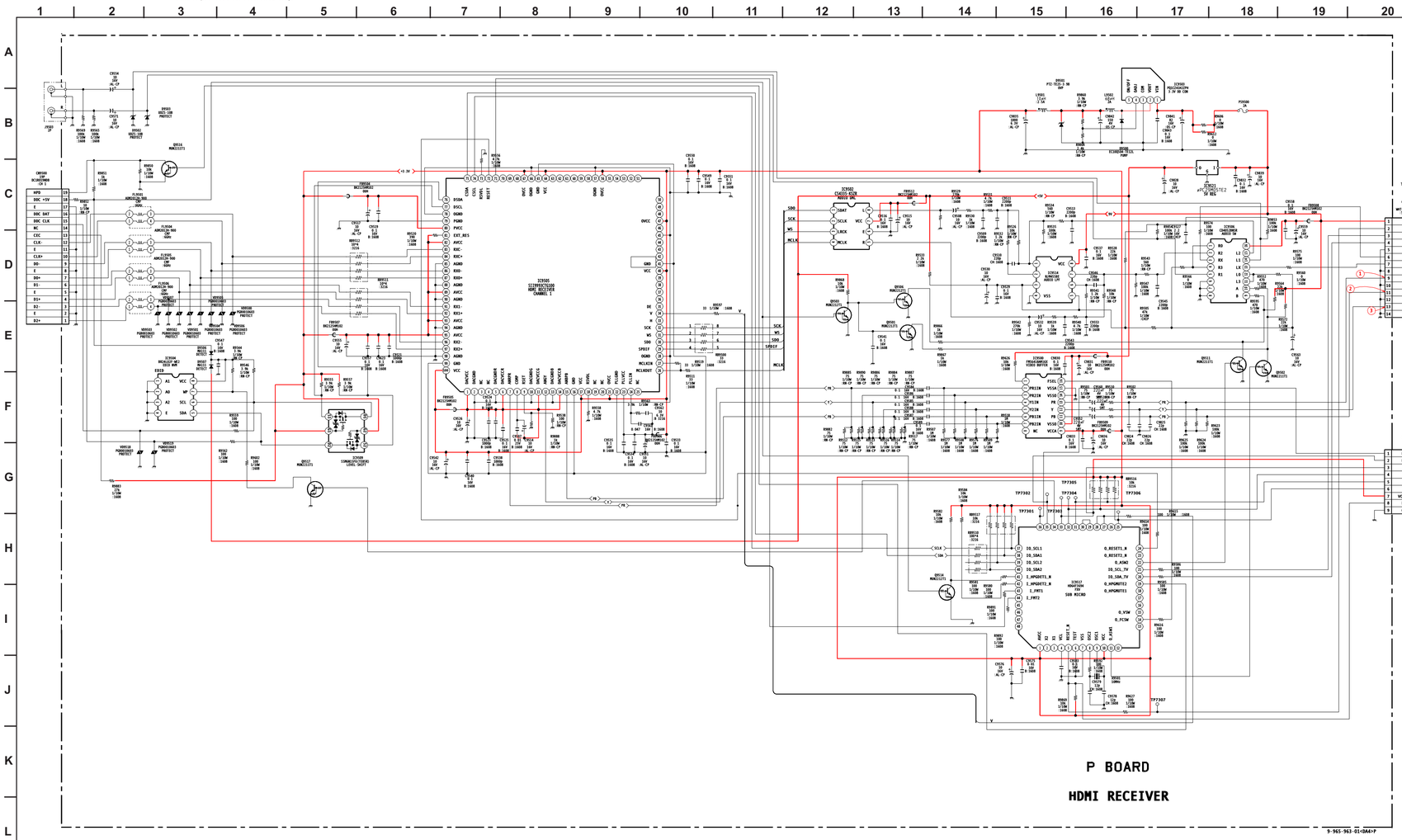


MY [VIDEO PROCESSOR, 3D-COMB, MICRO (MAIN, CCD), AUDIO PROCESSOR]

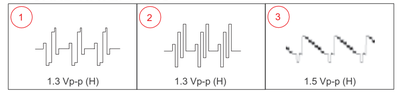
CONDUCTOR SIDE

P BOARD SCHEMATIC DIAGRAM

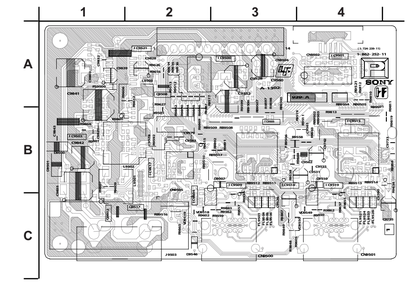
Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.



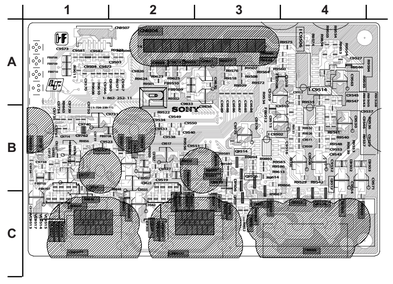
P BOARD WAVEFORMS



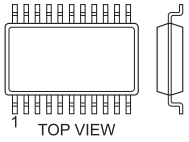
[HDMI RECEIVER]
COMPONENT SIDE



[HDMI RECEIVER]
CONDUCTOR SIDE

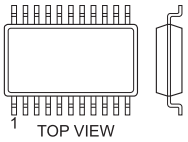


5-5. SEMICONDUCTORS (1 OF 2)



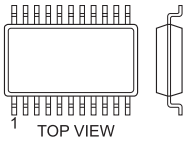
14pin

M52055FP
TLC2932IPW
TLC2933IPWR-12



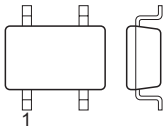
16pin

CXD2085M-T4
SN74LV4053ANSR



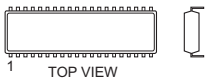
32pin

BH3868AFS-E2



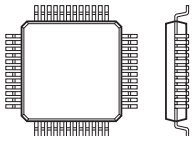
5pin

PST9120NL
PST9145NL
TC7SET08FU(TE85L)



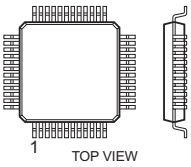
22pin

CXA2026AS



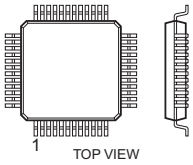
32pin

CXD2073Q-T4



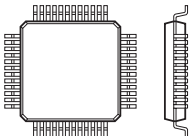
48pin

CXA2103Q
CXA2150Q



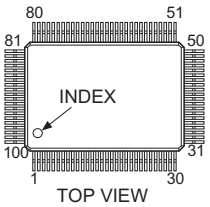
64pin

TLC5733AIPM

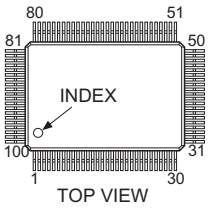


240pin

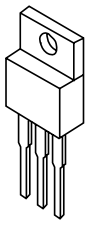
CXD9509AQ



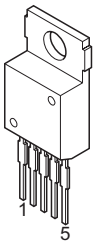
CXA2151Q



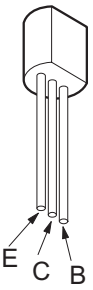
M306V2ME-153FP



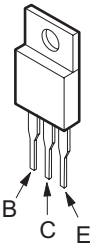
NJM79M12FA



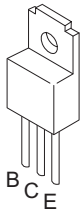
LA6500-FA



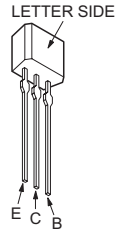
2SA1208S-TP
2SA1091O-TPE



IRF614
IRFI644-G-LF36
IRFI9630GS



2SA2005
2SC5511



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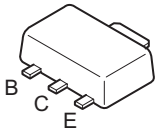
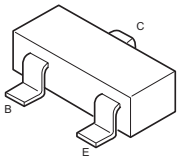


2SK2036(TE85L)



DTA114EKA-T146
DTC114TKA-T146
DTC144EKA-T146
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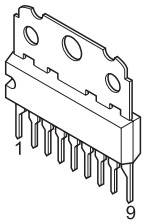
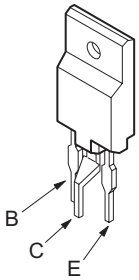
2SD601A-QRS-TX
2SB709A-QRS-TX
2SC2412K-T-146-QR
2SD2114KT146



TDA6111Q/N4



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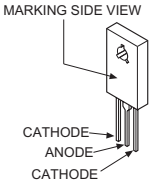
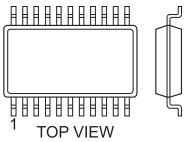


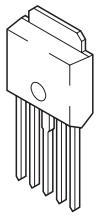
D5LC20U



8pin

NJM2901M-TE2
NJM2903M-TE2
NJM2904M-TE2
NJM4558E(TE2)
TC7WU04FU(TE12R)

SEMICONDUCTORS (2 OF 2)



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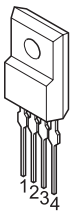

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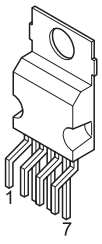
PQ12RF21
PQ30RV21



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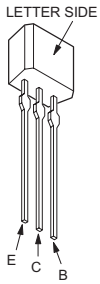

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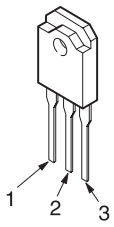

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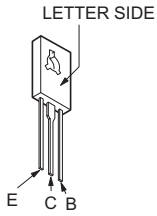

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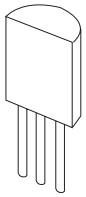

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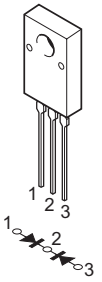

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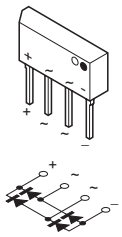

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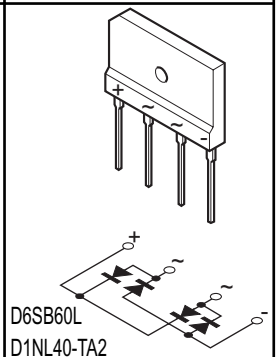

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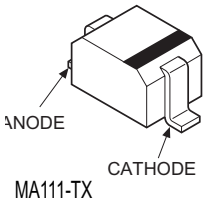
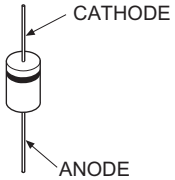


MA111-TX
MA113-TX
UDZSTE-1710B
UDZSTE-176.8B
UDZSTE-17-12



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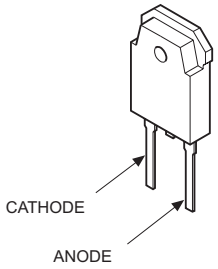
ERC91-02E



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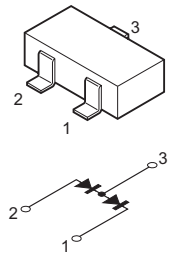
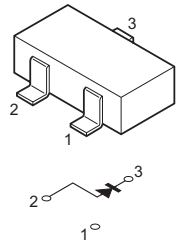
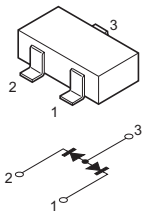


MA153-TX



MA3091-TX



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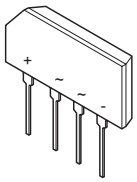

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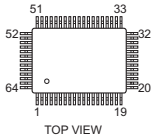

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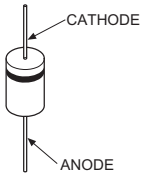

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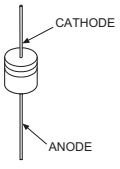
ERC04-06SE
GP08DPKG23
HSS83TD
HZU11B1TRF
RGP02-20EL-6394
MTZJ-77-22B



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MTZJ-T-77-15B
MTZJ-T-77-33B
MTZJ-T-77-10
MTZJ-T-77-12
MTZJ-T-77-13C
MTZJ-T-77-2.0A
MTZJ-T-77-22
MTZJ-T-77-3.0B
MTZJ-T-77-3.9B
MTZJ-T-77-33C
MTZJ-T-77-4.7B
MTZJ-T-77-5.1B
MTZJ-T-77-7.5B
RD5.6ES-T1B2

SECTION 6: EXPLODED VIEWS

Components not identified by a part number or description are not stocked because they are seldom required for routine service.

The component parts of an assembly are indicated by the reference numbers in the far right column of the parts list and within the dotted lines of the diagram.

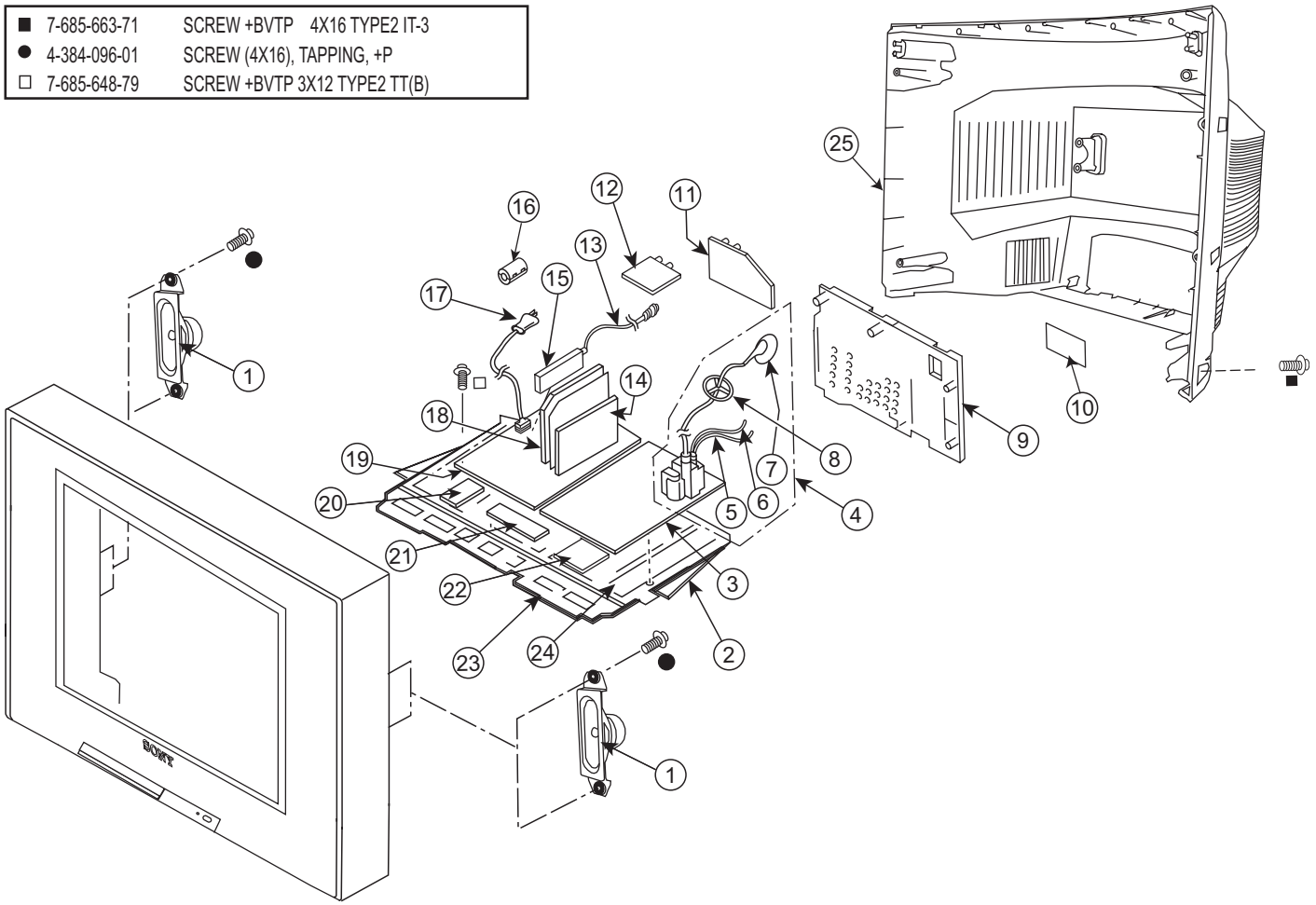
*** Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.**

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

6-1. CHASSIS (KV-27HS420/29DRC420)

■	7-685-663-71	SCREW +BVTP 4X16 TYPE2 IT-3
●	4-384-096-01	SCREW (4X16), TAPPING, +P
□	7-685-648-79	SCREW +BVTP 3X12 TYPE2 TT(B)



	REF. NO.	PART NO.	DESCRIPTION [ASSEMBLY INCLUDES]
	1	1-825-840-11	LOUDSPEAKER
*	2	4-102-133-01	BOARD, BOTTOM
*	3	A-1302-933-A	DZ BOARD, COMPLETE (KV-27HS420/29DRC420 L. NORTH) The high-voltage leads associated with the FBT on this DZ Board are not included and must be ordered separately (SEE 5-7).
*	3	A-1303-009-A	DZ BOARD, COMPLETE (KV-29DRC420 L. SOUTH) The high-voltage leads associated with the FBT on this DZ Board are not included and must be ordered separately (SEE 5-7).
⚠	4	1-453-464-11	FBT ASSY, NX-6200//X4J4 [5-7]
⚠	5	1-900-808-42	WIRE ASSY, G2
⚠	6	1-900-805-19	WIRE ASSY, FOCUS HV
⚠	7	1-251-374-14	CAP ASSY, HIGH-VOLTAGE
	8	4-084-918-01	HOLDER, HV CABLE
*	9	4-102-135-01	BRACKET, U
	10	4-102-764-01	LABEL, TERMINAL
*	11	A-1302-938-A	UY BOARD, COMPLETE
*	12	A-1302-939-A	P BOARD, COMPLETE
⚠	13	1-829-088-11	P-F CABLE

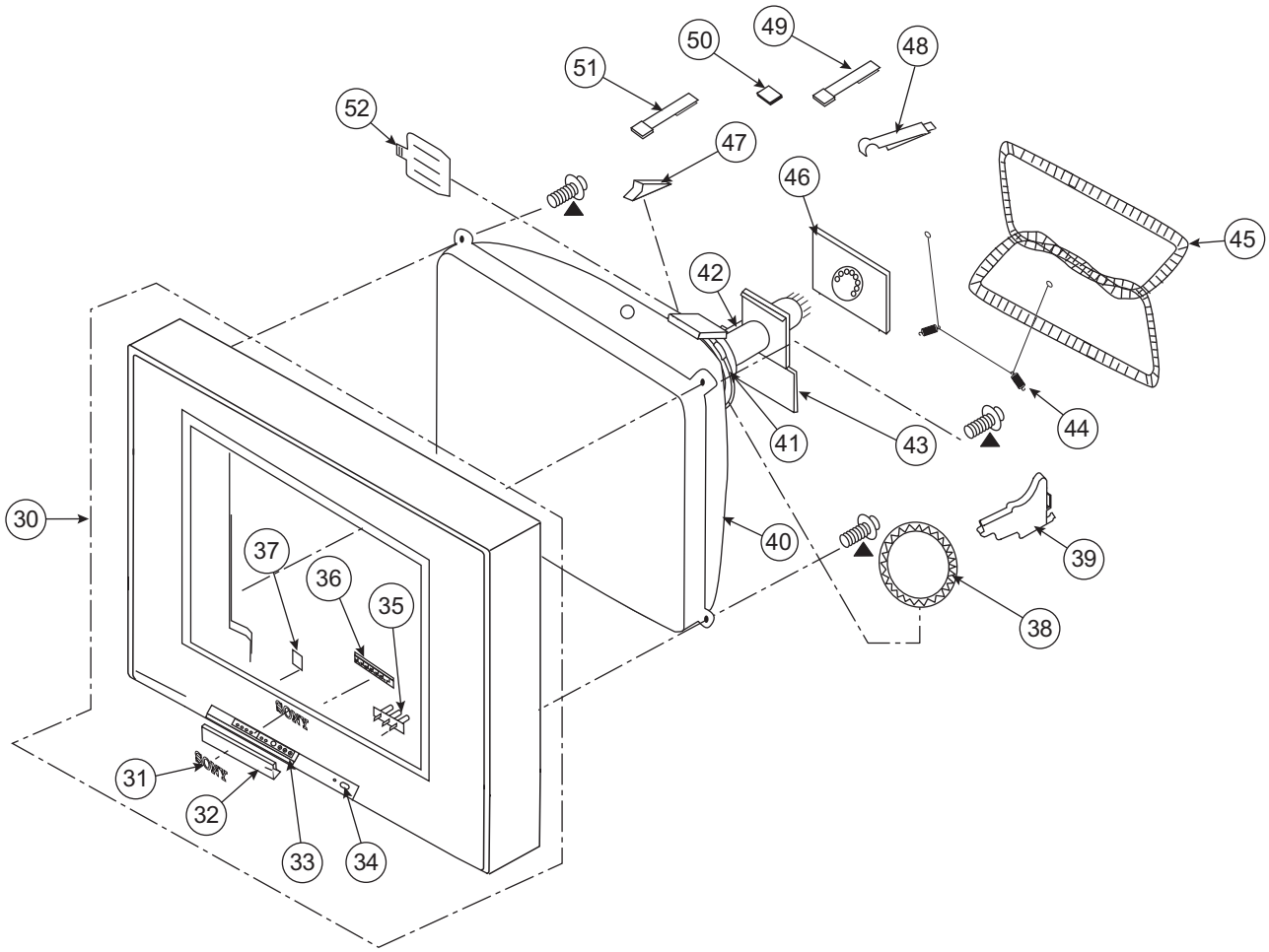
	REF. NO.	PART NO.	DESCRIPTION
*	14	A-1302-940-A	BY BOARD, COMPLETE
⚠	15	8-598-593-40	TUNER, FSS BTF-WA421
	16	1-500-586-11	FILTER, CLAMP (FERRITE CORE)
⚠	17	1-769-837-11	CORD, POWER(WITH NOISE FILTER) (ALL EXCEPT KV-29DRC420 L. SOUTH)
⚠	17	1-769-796-62	CORD, POWER (WITH CONNECTOR) (KV-29DRC420 L. SOUTH)
*	18	A-1302-937-A	MY BOARD, COMPLETE
*	19	A-1302-932-A	AY BOARD, COMPLETE (KV-27HS420/29DRC420 L. NORTH)
*	19	A-1303-008-A	AY BOARD, COMPLETE (KV-29DRC420 L. SOUTH)
*	20	A-1302-942-A	HBY BOARD, COMPLETE
*	21	A-1405-292-A	HAX BOARD, MOUNTED
*	22	A-1302-943-A	HCX BOARD, COMPLETE
*	23	4-102-120-01	BRACKET, H(27)
*	24	4-095-271-11	BRACKET, MAIN
	25	4-102-118-01	COVER, REAR

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

6-2. PICTURE TUBE (KV-27HS420/29DRC420)

▲ 4-046-765-12 SCREW, TAPPING 7+CROWN WASHER



REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
30	X-4042-952-1	BEZNET ASSY	[31-37]
31	3-704-179-61	EMBLEM, SONY (NO.9)	
32	4-102-127-11	DOOR, CONTROL	
33	4-102-130-01	LABEL, FRONT CONTROL	
34	4-102-129-11	BUTTON, POWER	
35	4-102-128-01	GUIDE, LED	
36	4-093-611-12	BUTTON, MULTI	
37	4-102-131-01	DAMPER, DOOR	
⚠ 38	1-451-498-41	COIL, NA ROTATION	
39	4-102-121-01	SUPPORTER, CRT(27)	
⚠ 40	8-735-082-05	CRT 29RSN(SDP) (M68LNH050X) (KV-27HS420/29DRC420 L. NORTH)	
⚠ 40	8-735-083-05	CRT 29RSN(SDP)(SOUTH) (M68LNH050X) (KV-29DRC420 L. SOUTH)	
⚠ 41	8-451-511-21	DY Y29RSC2-S	

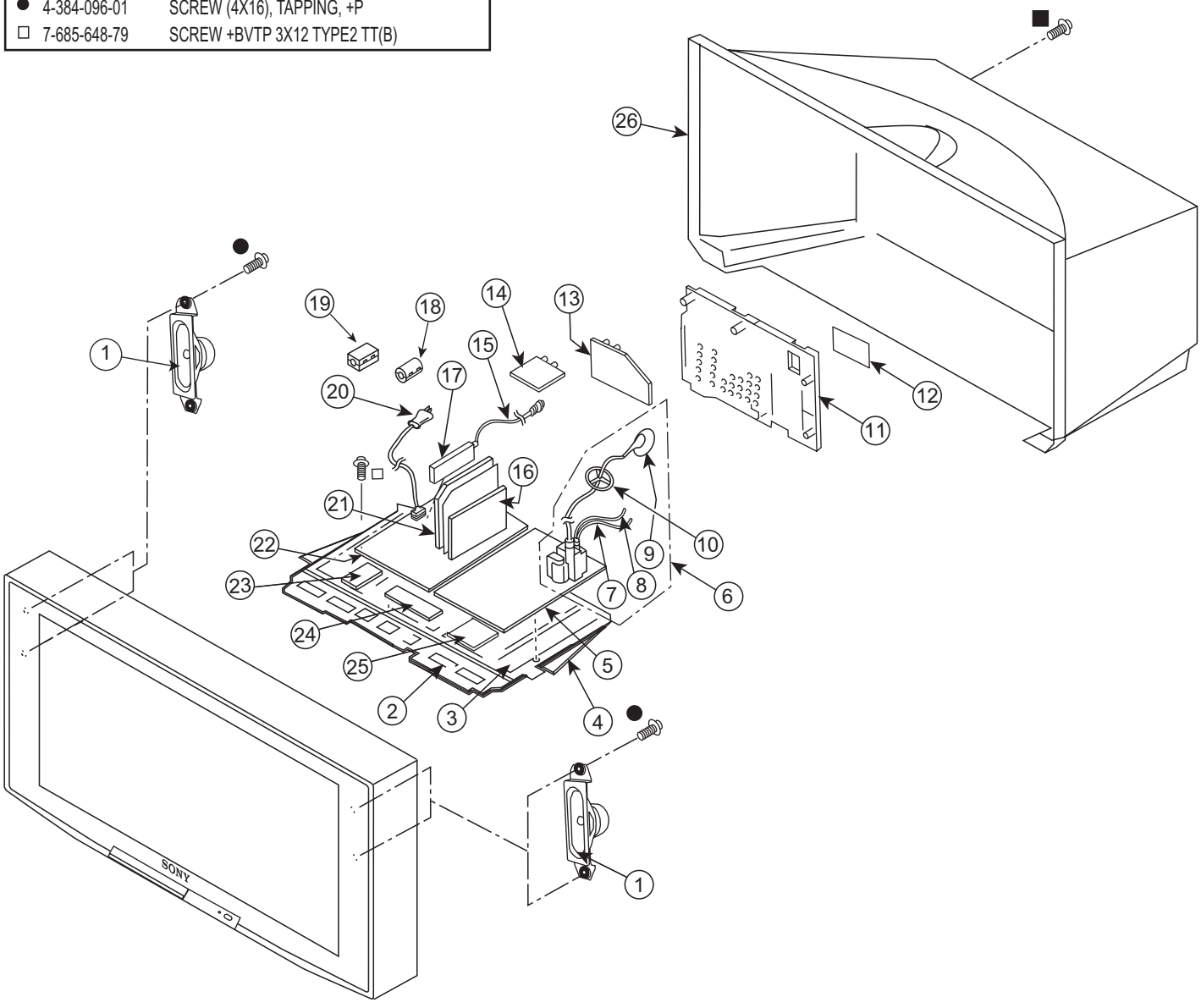
REF. NO.	PART NO.	DESCRIPTION
⚠ 42	8-453-022-21	NECK ASSEMBLY2920-M2
* 43	A-1415-602-A	WY (VAR) BOARD, MOUNTED
44	4-036-329-01	SPRING (B), TENSION
⚠ 45	1-419-156-21	COIL, DEGAUSSING (KV-27HS420/29DRC420 L. NORTH)
⚠ 45	1-419-523-21	COIL, DEGAUSSING (KV-29DRC420 L. SOUTH)
* 46	A-1400-550-A	CH BOARD, MOUNTED
47	4-053-005-01	SPACER, DY
* 48	4-062-970-12	CLIP (29RSN), DGC
49	4-051-734-21	PIECE B(120), CONV. CORRECT
50	1-452-885-11	MAGNET, LANDING
51	4-083-414-01	PIECE A(110), CONV CORRECT
52	4-081-170-01	PLATE, TLH CORRECTION

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

6-3. CHASSIS (KV-30HS420/34HS420)

■	7-685-663-71	SCREW +BVTP 4X16 TYPE2 IT-3
●	4-384-096-01	SCREW (4X16), TAPPING, +P
□	7-685-648-79	SCREW +BVTP 3X12 TYPE2 TT(B)



	REF. NO.	PART NO.	DESCRIPTION [ASSEMBLY INCLUDES]
	1	1-825-840-11	LOUDSPEAKER
*	2	4-102-134-01	BRACKET, H
*	3	4-095-271-11	BRACKET, MAIN
*	4	4-102-133-01	BOARD, BOTTOM
*	5	A-1302-934-A	DZ BOARD, COMPLETE (KV-30HS420 ONLY) The high-voltage leads associated with the FBT on this DZ Board are not included and must be ordered separately (SEE 5-7).
*	5	A-1302-936-A	DZ BOARD, COMPLETE (KV-34HS420 ONLY) The high-voltage leads associated with the FBT on this DZ Board are not included and must be ordered separately (SEE 7-9).
⚠	6	1-453-464-11	FBT ASSY, NX-6200//X4J4 [7-9]
⚠	7	1-900-808-42	WIRE ASSY, G2
⚠	8	1-900-805-19	WIRE ASSY, FOCUS HV
⚠	9	1-251-715-22	CAP ASSY, HIGH-VOLTAGE
	10	4-084-918-01	HOLDER, HV CABLE
*	11	4-102-135-01	BRACKET, U
	12	4-102-764-01	LABEL, TERMINAL

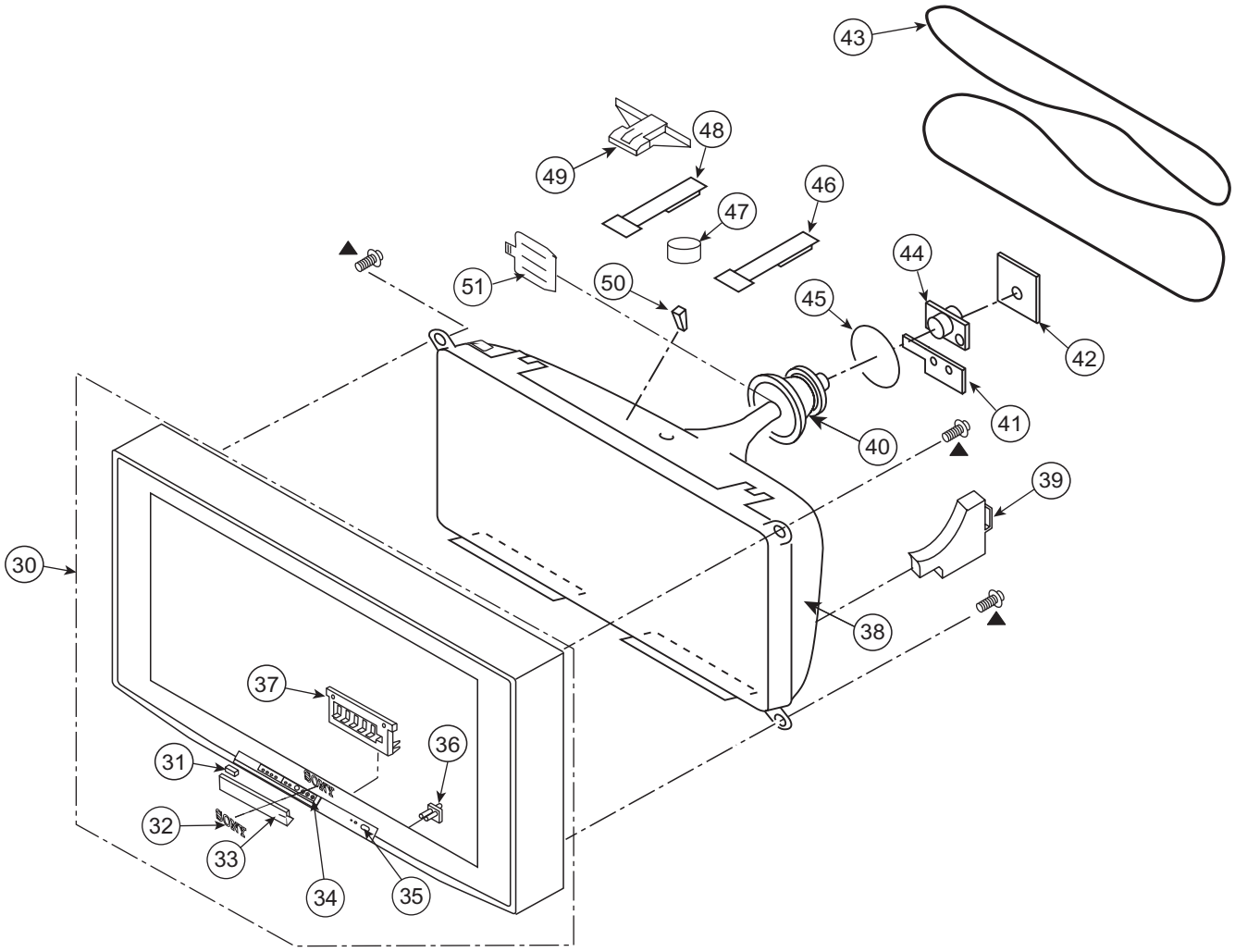
	REF. NO.	PART NO.	DESCRIPTION
*	13	A-1302-938-A	UY BOARD, COMPLETE
*	14	A-1302-939-A	P BOARD, COMPLETE
⚠	15	1-829-088-11	P-F CABLE
*	16	A-1302-940-A	BY BOARD, COMPLETE
⚠	17	8-598-593-40	TUNER, FSS BTF-WA421
	18	1-500-586-11	FILTER, CLAMP (FERRITE CORE)
	19	1-500-082-11	CLAMP, SLEEVE FERRITE
⚠	20	1-769-837-11	CORD, POWER(WITH NOISE FILTER)
*	21	A-1302-937-A	MY BOARD, COMPLETE
*	22	A-1302-935-A	AY BOARD, COMPLETE (KV-30HS420 ONLY)
*	22	A-1302-941-A	AY BOARD, COMPLETE (KV-34HS420 ONLY)
*	23	A-1302-942-A	HBY BOARD, COMPLETE
*	24	A-1405-292-A	HAX BOARD, MOUNTED
*	25	A-1302-943-A	HCX BOARD, COMPLETE
	26	4-102-138-01	COVER, REAR (KV-30HS420 ONLY)
	26	4-102-123-01	COVER, REAR (KV-34HS420 ONLY)

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

6-4. PICTURE TUBE (KV-30HS420/34HS420)

▲ 4-046-765-12 SCREW, TAPPING 7+CROWN WASHER



REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
30	X-4042-956-1	BEZNET ASSY (KV-30HS420 ONLY)	[31-37]
30	X-4042-953-1	BEZNET ASSY (KV-34HS420 ONLY)	[31-37]
31	4-102-131-01	DAMPER, DOOR	
32	3-704-179-61	EMBLEM, SONY (NO.9)	
33	4-102-126-11	DOOR, CONTROL	
34	4-102-130-01	LABEL, FRONT CONTROL	
35	4-102-129-11	BUTTON, POWER	
36	4-102-128-01	GUIDE, LED	
37	4-093-611-12	BUTTON, MULTI	
⚠ 38	8-735-110-05	CRT 32RVEN (W76LWN000X) (KV-30HS420 ONLY)	
⚠ 38	8-735-060-05	CRT 36RV2 (W86LPH015X) (KV-34HS420 ONLY)	
39	4-102-136-01	SUPPORTER, CRT	
⚠ 40	1-451-551-13	DEFLECTION YOKE (Y32VEC-T) (KV-30HS420 ONLY)	
⚠ 40	8-451-498-23	DY Y36RVC-M2 (KV-34HS420 ONLY)	
* 41	A-1415-589-A	WY (VAR) BOARD, MOUNTED (KV-30HS420 ONLY)	
* 41	A-1415-602-A	WY (VAR) BOARD, MOUNTED (KV-34HS420 ONLY)	

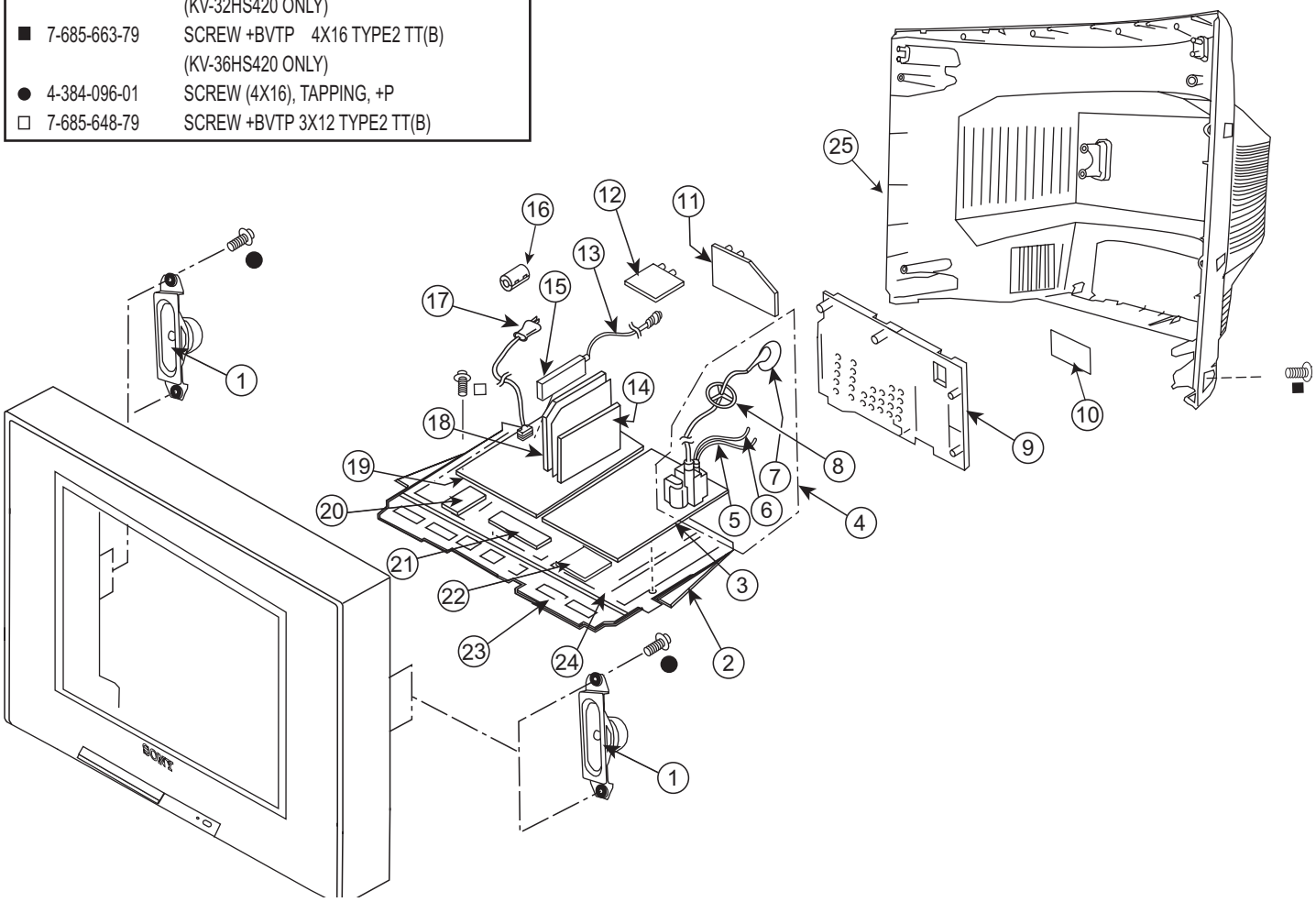
REF. NO.	PART NO.	DESCRIPTION
* 42	A-1400-550-A	CH BOARD, MOUNTED
⚠ 43	1-456-474-11	DEGAUSSING COIL (KV-30HS420 ONLY)
⚠ 43	1-416-837-21	COIL, DEGAUSSING (KV-34HS420 ONLY)
⚠ 44	8-453-022-21	NECK ASSEMBLY NA2920-M2 (KV-30HS420 ONLY)
⚠ 44	8-453-023-21	NECK ASSEMBLY NA328-M2 (KV-34HS420 ONLY)
⚠ 45	1-451-498-31	COIL, NA ROTATION
46	4-051-734-21	PIECE B(120), CONV. CORRECT
47	1-452-032-00	MAGNET,DISC
48	4-083-414-01	PIECE A(110), CONV CORRECT (KV-34HS420 ONLY)
49	4-102-284-01	CLIP, DGC
50	4-086-199-02	SPACER, DY (KV-30HS420 ONLY)
50	4-053-005-01	SPACER, DY (KV-34HS420 ONLY)
51	2-163-920-01	PLATE, TLH CORRECTION (KV-30HS420 ONLY)

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

6-5. CHASSIS (KV-32HS420/36HS420)

■	7-685-663-71	SCREW +BVTP 4X16 TYPE2 IT-3 (KV-32HS420 ONLY)
■	7-685-663-79	SCREW +BVTP 4X16 TYPE2 TT(B) (KV-36HS420 ONLY)
●	4-384-096-01	SCREW (4X16), TAPPING, +P
□	7-685-648-79	SCREW +BVTP 3X12 TYPE2 TT(B)



	REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
	1	1-825-840-11	LOUDSPEAKER	
*	2	4-102-133-01	BOARD, BOTTOM	
*	3	A-1302-936-A	DZ BOARD, COMPLETE The high-voltage leads associated with the FBT on this DZ Board are not included and must be ordered separately (SEE 5-7).	
⚠	4	1-453-464-11	FBT ASSY, NX-6200//X4J4	[5-7]
⚠	5	1-900-808-42	WIRE ASSY, G2 (KV-32HS420 ONLY)	
⚠	5	1-900-805-22	CONNECTOR ASSY, G2 HV (KV-36HS420 ONLY)	
⚠	6	1-900-805-19	WIRE ASSY, FOCUS HV	
⚠	7	1-251-715-22	CAP ASSY, HIGH-VOLTAGE	
	8	4-084-918-01	HOLDER, HV CABLE (KV-32HS420 ONLY)	
*	9	4-102-135-01	BRACKET, U	
	10	4-102-764-01	LABEL, TERMINAL	
*	11	A-1302-938-A	UY BOARD, COMPLETE	
*	12	A-1302-939-A	P BOARD, COMPLETE	
⚠	13	1-829-088-11	P-F CABLE	
*	14	A-1302-940-A	BY BOARD, COMPLETE	
⚠	15	8-598-593-40	TUNER, FSS BTF-WA421	
	16	1-500-586-11	FILTER, CLAMP (FERRITE CORE)	

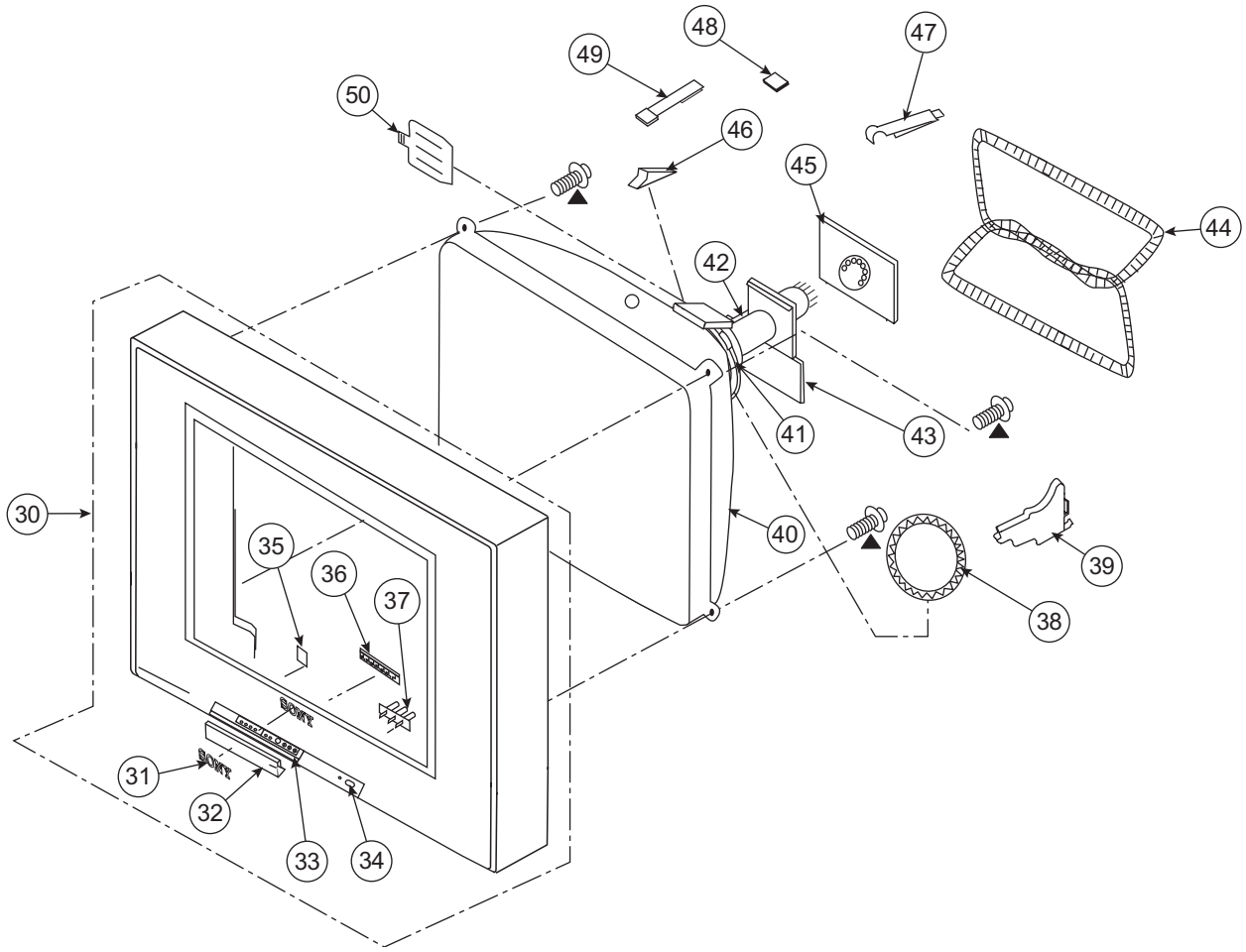
	REF. NO.	PART NO.	DESCRIPTION
⚠	17	1-769-837-11	CORD, POWER(WITH NOISE FILTER)
*	18	A-1302-937-A	MY BOARD, COMPLETE
*	19	A-1302-941-A	AY BOARD, COMPLETE
*	20	A-1302-942-A	HBY BOARD, COMPLETE
*	21	A-1405-292-A	HAX BOARD, MOUNTED
*	22	A-1302-943-A	HCX BOARD, COMPLETE
*	23	4-102-134-01	BRACKET, H
*	24	4-095-271-11	BRACKET, MAIN
	25	4-102-132-01	COVER, REAR (KV-32HS420 ONLY)
	25	4-102-125-01	COVER, REAR (KV-36HS420 ONLY)

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

6-6. PICTURE TUBE (KV-32HS420/36HS420)

▲ 4-046-765-12 SCREW, TAPPING 7+CROWN WASHER



REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
30	X-4042-955-1	BEZNET ASSY (KV-32HS420 ONLY)	[31-37]
30	X-4042-954-1	BEZNET ASSY (KV-36HS420 ONLY)	[31-35]
31	3-704-179-61	EMBLEM, SONY (NO.9)	
32	4-102-127-11	DOOR, CONTROL	
33	4-102-130-01	LABEL, FRONT CONTROL	
34	4-102-129-11	BUTTON, POWER	
35	4-102-131-01	DAMPER, DOOR	
36	4-102-128-01	GUIDE, LED (NOT INCLUDED WITH KV-36HS420 BEZNET ASSY)	
37	4-093-611-12	BUTTON, MULTI (NOT INCLUDED WITH KV-36HS420 BEZNET ASSY)	
⚠ 38	1-451-498-41	COIL, NA ROTATION	
39	4-102-136-01	SUPPORTER, CRT	
⚠ 40	8-735-047-05	CRT 34RSN (A80LPD80X) (KV-32HS420 ONLY)	
⚠ 40	8-735-048-05	CRT 38RSN (KV-36HS420 ONLY)	
⚠ 41	8-451-512-12	DY Y34RSC-M (KV-32HS420 ONLY)	
⚠ 41	8-451-516-21	DY Y38RSC-V (KV-36HS420 ONLY)	
⚠ 42	8-453-023-21	NECK ASSEMBLY NA328-M2	

REF. NO.	PART NO.	DESCRIPTION
* 43	A-1415-602-A	WY (VAR) BOARD, MOUNTED
⚠ 44	1-416-827-21	COIL, DEGAUSSING (KV-32HS420 ONLY)
⚠ 44	1-456-072-21	COIL, DEGAUSSING (KV-36HS420 ONLY)
* 45	A-1400-550-A	CH BOARD, MOUNTED
46	4-053-005-01	SPACER, DY (KV-32HS420 ONLY)
46	2-164-116-01	SPACER, DY (KV-36HS420 ONLY)
47	4-102-284-01	CLIP, DGC (KV-32HS420 ONLY)
47	4-065-895-12	HOLDER, DGC (KV-36HS420 ONLY)
48	1-452-885-11	MAGNET, LANDING (ALL EXCEPT KV-36HS420)
49	4-083-414-01	PIECE A(110), CONV CORRECT (KV-32HS420 ONLY)
49	4-085-128-01	PIECE A(110), CONV CORRECT (KV-36HS420 ONLY)
50	4-081-170-01	PLATE, TLH CORRECTION

SECTION 7: ELECTRICAL PARTS LIST

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components in this manual identified by the following symbol: ⋈ indicate parts that have been carefully factory-selected to satisfy regulations regarding X-ray radiation for each set.

Should replacement be required for one of these components, replace only with the value originally used.

*** Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.**

DZ

RESISTORS
- **All resistors are in ohms**
- **F : nonflammable**
- **All variable and adjustable resistors have characteristic curve B, unless otherwise noted.**

When ordering parts by reference number, please include the board name.

DZ

* **A-1302-933-A DZ BOARD, COMPLETE**
(KV-27HS420, 29DRC420LN ONLY)

* **A-1302-934-A DZ BOARD, COMPLETE**
(KV-30HS420 ONLY)

* **A-1302-936-A DZ BOARD, COMPLETE**
(KV-32HS420, 34HS420, 36HS420 ONLY)

* **A-1303-009-A DZ BOARD, COMPLETE**
(KV-29DRC420LS ONLY)

The high-voltage leads associated with the FBT on the DZ board are not included and must be ordered separately. Order the following leads when requesting this DZ Board:

⚠	1-251-374-14	CAP ASSY, HIGH-VOLTAGE (KV-27HS420, 29DRC420 ONLY)
⚠	1-251-715-22	CAP ASSY, HIGH-VOLTAGE (KV-30HS420, 32HS420, 34HS420, 36HS420 ONLY)
⚠	1-900-805-19	WIRE ASSY, FOCUS HV
⚠	1-900-805-22	CONNECTOR ASSY, G2 HV (KV-36HS420 ONLY)
⚠	1-900-808-42	WIRE ASSY, G2 (ALL EXCEPT KV-36HS420)
	4-382-854-01	SCREW (M3X8), P, SW (+)
	4-382-854-21	SCREW (M3X14), P, SW (+)

CAPACITOR

REF. NO.	PART NO.	DESCRIPTION	VALUES		
C5001	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C5002	1-106-383-00	MYLAR	0.047µF	10%	200V
C5003	1-162-967-11	CERAMIC CHIP	0.0033µF	10%	50V
C5004	1-106-383-00	MYLAR	0.047µF	10%	200V
C5005	1-126-235-11	ELECT	100µF	20%	16V
C5006	1-126-964-11	ELECT	10µF	20%	50V
C5007	1-126-941-11	ELECT	470µF	20%	25V
C5009	1-126-941-11	ELECT	470µF	20%	25V
C5010	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25V
C5011	1-107-641-11	ELECT	220µF	20%	160V
C5012	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C5013	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C5014	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25V
C5016	1-130-783-71	MYLAR	0.33µF	10%	100V
C5017	1-164-677-11	CERAMIC CHIP	0.033µF	10%	16V
C5018	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5019	1-126-968-11	ELECT	100µF	20%	50V
C5020	1-104-665-11	ELECT	100µF	20%	25V
C5022	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C5024	1-102-038-00	CERAMIC	0.001µF		500V
C5028	1-127-715-91	CERAMIC CHIP (ALL EXCEPT KV-29DRC420LS)	0.22µF	10%	16V
C5029	1-115-349-51	CERAMIC CHIP (KV-30HS420 ONLY)	0.01µF		2KV
C5030	1-137-365-11	MYLAR	0.0015µF	5%	50V
C5031	1-162-965-11	CERAMIC CHIP	0.0015µF	10%	50V
C5032	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V
C5033	1-130-495-00	MYLAR	0.1µF	5%	50V
C5035	1-104-665-11	ELECT	100µF	20%	25V
C5036	1-126-941-11	ELECT	470µF	20%	25V
C5039	1-164-227-11	CERAMIC CHIP (ALL EXCEPT KV-29DRC420LS)	0.022µF	10%	25V
C5040	1-126-935-11	ELECT	470µF	20%	16V
C5041	1-126-935-11	ELECT	470µF	20%	16V
C5044	1-164-360-11	CERAMIC CHIP	0.1µF		16V
C5045	1-164-360-11	CERAMIC CHIP	0.1µF		16V
C5046	1-162-971-11	CERAMIC CHIP	0.001µF	10%	50V
C5047	1-162-971-11	CERAMIC CHIP	0.001µF	10%	50V
C5048	1-162-953-11	CERAMIC CHIP	100pF	5%	50V
C5049	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C5050	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5051	1-164-360-11	CERAMIC CHIP	0.1µF		16V
C5052	1-126-947-11	ELECT	47µF	20%	35V
C5053	1-106-220-00	MYLAR	0.1µF	10%	100V
C5054	1-104-666-11	ELECT	220µF	20%	25V

DZ

REF. NO.	PART NO.	DESCRIPTION	VALUES		
C5056	1-162-318-11	CERAMIC	0.001µF	10%	500V
C5057	1-104-332-11	CERAMIC	470pF	10%	2KV
	(ALL EXCEPT KV-30HS420)				
C5058	1-162-116-00	CERAMIC	680pF	10%	2KV
C5059	1-162-116-00	CERAMIC	680pF	10%	2KV
C5060	1-137-417-11	MYLAR	0.015µF	10%	100V
C5061	1-117-833-21	FILM	5100pF	3%	1.5KV
	(KV-30HS420 ONLY)				
C5061	1-117-837-21	FILM	7500pF	3%	1.5KV
	(KV-27HS420, 29DRC420LN ONLY)				
C5061	1-117-839-11	FILM	9100pF	3%	1.5KV
	(KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY)				
C5064	1-117-665-11	FILM	0.33µF	5%	250V
	(KV-30HS420 ONLY)				
C5064	1-117-667-71	FILM	0.47µF	5%	250V
	(KV-27HS420, 29DRC420LN ONLY)				
C5064	1-117-668-31	FILM	0.56µF	5%	250V
	(KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY)				
C5065	1-107-506-11	FILM	0.68µF	3%	400V
	(KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY)				
C5065	1-109-837-11	FILM	0.56µF	3%	400V
	(KV-27HS420, 29DRC420LN ONLY)				
C5065	1-117-664-11	FILM	0.27µF	3%	250V
	(KV-30HS420 ONLY)				
C5066	1-109-921-11	CERAMIC	0.0015µF	10%	500V
C5070	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5071	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5074	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C5075	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5076	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5077	1-164-360-11	CERAMIC CHIP	0.1µF		16V
C5078	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V
C5079	1-162-965-11	CERAMIC CHIP	0.0015µF	10%	50V
C5082	1-117-832-21	FILM	4700pF	3%	1.5KV
	(KV-30HS420 ONLY)				
C5082	1-117-837-21	FILM	7500pF	3%	1.5KV
	(KV-27HS420, 29DRC420LN ONLY)				
C5082	1-117-839-11	FILM	9100pF	3%	1.5KV
	(KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY)				
C5084	1-126-941-11	ELECT	470µF	20%	25V
C5086	1-126-941-11	ELECT	470µF	20%	25V
C5502	1-126-941-11	ELECT	470µF	20%	25V
C5504	1-126-947-11	ELECT	47µF	20%	35V
C5505	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5506	1-162-962-11	CERAMIC CHIP	470pF	10%	50V

REF. NO.	PART NO.	DESCRIPTION	VALUES		
C5511	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5512	1-162-974-11	CERAMIC CHIP	0.01µF		50V
C5513	1-162-974-11	CERAMIC CHIP	0.01µF		50V
C5514	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5515	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5516	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5517	1-129-716-00	FILM	0.015µF	5%	400V
C5518	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5519	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
	(KV-30HS420 ONLY)				
C5519	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V
	(ALL EXCEPT KV-30HS420)				
C5520	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5521	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5522	1-115-416-11	CERAMIC CHIP	0.001µF	5%	25V
C5523	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5524	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5526	1-162-967-11	CERAMIC CHIP	0.0033µF	10%	50V
C5527	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5528	1-129-709-91	FILM	0.0039µF	5%	630V
C5529	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C5530	1-136-167-00	FILM	0.15µF	5%	50V
C5531	1-130-495-00	MYLAR	0.1µF	5%	50V
C5533	1-126-961-11	ELECT	2.2µF	20%	50V
C5534	1-126-947-11	ELECT	47µF	20%	35V
C5535	1-126-947-11	ELECT	47µF	20%	35V
C5540	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C5548	1-137-194-81	FILM	0.47µF	5%	50V
C5550	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C5551	1-126-947-11	ELECT	47µF	20%	35V
C5552	1-126-947-11	ELECT	47µF	20%	35V
C5598	1-126-947-11	ELECT	47µF	20%	35V
C5609	1-104-665-11	ELECT	100µF	20%	25V
C5623	1-104-665-11	ELECT	100µF	20%	25V
C6502	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C6503	1-131-940-11	ELECT	1200µF	20%	250V
C6507	1-130-495-00	MYLAR	0.1µF	5%	50V
C6508	1-126-947-11	ELECT	47µF	20%	35V
C6510	1-130-495-00	MYLAR	0.1µF	5%	50V
C6511	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C6513	1-126-940-11	ELECT	330µF	20%	25V
C6514	1-126-767-11	ELECT	1000µF	20%	16V
C6515	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C6516	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V

DZ

REF. NO.	PART NO.	DESCRIPTION	VALUES		
C6517	1-126-963-11	ELECT	4.7µF	20%	50V
C6518	1-136-479-11	FILM	0.001µF	5%	100V
C6519	1-126-964-11	ELECT	10µF	20%	50V
C6525	1-125-969-91	CERAMIC	680pF	10%	1KV
C6526	1-125-969-91	CERAMIC	680pF	10%	1KV
C6532	1-137-741-22	FILM	39000pF	3%	800V
C6546	1-126-974-11	ELECT	3300µF	20%	50V
C6549	1-126-969-11	ELECT	220µF	20%	50V
C6550	1-126-968-11	ELECT	100µF	20%	50V
C6551	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25V
C6552	1-126-937-11	ELECT	4700µF	20%	16V
C6554	1-126-768-11	ELECT	2200µF	20%	16V
C6555	1-104-665-11	ELECT	100µF	20%	25V
C6556	1-131-867-51	ELECT	100µF		160V
C6557	1-107-654-11	ELECT	33µF	20%	250V
C6558	1-126-967-11	ELECT	47µF	20%	50V
C6559	1-126-942-61	ELECT	1000µF	20%	25V
C6584	1-165-528-31	MYLAR	0.1µF	10	0V
C6590	1-131-940-11	ELECT	1200µF	20%	250V
C6592	1-119-898-51	CERAMIC	470pF	10%	250V
C6593	1-126-768-11	ELECT	2200µF	20%	16V
C6595	1-104-666-11	ELECT	220µF	20%	25V
C6596	1-126-960-11	ELECT	1µF	20%	50V
C6597	1-126-943-11	ELECT	2200µF	20%	25V
C8001	1-126-964-11	ELECT	10µF	20%	50V
C8002	1-126-964-11	ELECT	10µF	20%	50V
C8003	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8005	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C8006	1-126-960-11	ELECT	1µF	20%	50V
C8007	1-162-971-11	CERAMIC CHIP	0.001µF	10%	50V
C8012	1-126-947-11	ELECT	47µF	20%	35V
C8015	1-126-947-11	ELECT	47µF	20%	35V
C8016	1-130-495-00	MYLAR	0.1µF	5%	50V
C8017	1-126-964-11	ELECT	10µF	20%	50V
C8018	1-126-964-11	ELECT	10µF	20%	50V
C8020	1-130-495-00	MYLAR	0.1µF	5%	50V
C8021	1-162-974-11	CERAMIC CHIP	0.01µF		50V
C8024	1-126-967-11	ELECT	47µF	20%	50V
C8025	1-126-947-11	ELECT	47µF	20%	35V
C8027	1-130-495-00	MYLAR	0.1µF	5%	50V
C8028	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C8030	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V

REF. NO.	PART NO.	DESCRIPTION	VALUES		
C8031	1-126-933-11	ELECT	100µF	20%	16V
C8032	1-136-813-11	FILM	680pF	5%	100V
C8033	1-126-964-11	ELECT	10µF	20%	50V
C8035	1-100-614-81	CERAMIC	330pF	5%	1KV
C8036	1-100-614-81	CERAMIC	330pF	5%	1KV
C8037	1-165-953-11	FILM	47000pF	3%	800V
C8040	1-126-969-11	ELECT	220µF	20%	50V
C8041	1-130-777-00	MYLAR	0.1µF	5%	100V
C8042	1-136-189-00	MYLAR	0.1µF	10%	250V
C8045	1-130-475-00	MYLAR	0.0022µF	5%	50V
C8046	1-107-444-11	CERAMIC	100pF	5%	2KV
	(ALL EXCEPT KV-30HS420)				
C8047	1-162-130-11	CERAMIC	180pF	10%	2KV
	(ALL EXCEPT KV-30HS420)				
C8048	1-137-378-11	MYLAR	0.22µF	5%	50V
C8050	1-100-122-31	FILM	0.022µF	5%	400V
	(ALL EXCEPT KV-29DRC420LS)				
C8050	1-129-718-00	FILM	0.022µF	5%	630V
	(KV-29DRC420LS ONLY)				
C8051	1-126-964-11	ELECT	10µF	20%	50V
C8052	1-104-665-11	ELECT	100µF	20%	25V
C8053	1-162-117-00	CERAMIC	100pF	10%	500V
C8054	1-102-244-00	CERAMIC	220pF	10%	500V
C8055	1-100-144-31	FILM	0.0068µF	5%	630V
	(KV-30HS420 ONLY)				
C8055	1-136-535-91	FILM	0.0018µF	5%	630V
	(ALL EXCEPT KV-30HS420)				
C8056	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8058	1-137-194-81	FILM	0.47µF	5%	50V
C8059	1-126-947-11	ELECT	47µF	20%	35V
C8060	1-106-371-00	ELECT	0.015µF		200V
	(KV-30HS420 ONLY)				
C8060	1-107-635-11	ELECT	4.7µF	20%	160V
	(ALL EXCEPT KV-30HS420)				
C8063	1-165-607-91	FILM	10000pF	3%	800V
C8065	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V
C8073	1-162-962-11	CERAMIC CHIP	470pF	10%	50V
C8074	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8075	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8076	1-126-963-11	ELECT	4.7µF	20%	50V
C8077	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C8079	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V
C8139	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V

DZ

	REF. NO.	PART NO.	DESCRIPTION	VALUES
		CONNECTOR		
*	CN5001	1-779-890-11	CONNECTOR, BOARD TO BOARD	10P
*	CN5002	1-580-798-11	CONNECTOR PIN (DY)	6P
*	CN5003	1-564-507-11	PLUG, CONNECTOR	4P
*	CN5009	1-779-890-11	CONNECTOR, BOARD TO BOARD	10P
*	CN5011	1-779-890-11	CONNECTOR, BOARD TO BOARD	10P
*	CN5509	1-564-512-11	PLUG, CONNECTOR	9P
		(KV-29DRC420LS ONLY)		
*	CN5509	1-564-515-11	PLUG, CONNECTOR	12P
		(ALL EXCEPT KV-29DRC420LS)		
*	CN6502	1-766-240-11	PIN, CONNECTOR (PC BOARD)	2P
*	CN6503	1-564-508-11	PLUG, CONNECTOR	5P
*	CN6504	1-564-515-11	PLUG, CONNECTOR	12P
*	CN6506	1-779-890-11	CONNECTOR, BOARD TO BOARD	10P
		DIODE		
	D5001	8-719-083-60	DIODE	UDZSTE-174.7B
	D5002	8-719-908-03	DIODE	GP08D
	D5003	8-719-028-45	DIODE	D2L20U
	D5004	8-719-083-82	DIODE	UDZS-TE17-12B
	D5005	8-719-404-50	DIODE	MA111-TX
	D5006	8-719-404-50	DIODE	MA111-TX
	D5007	8-719-404-50	DIODE	MA111-TX
	D5008	8-719-404-50	DIODE	MA111-TX
	D5010	8-719-404-50	DIODE	MA111-TX
	D5011	8-719-109-63	DIODE	RD3.0ESB2
	D5014	8-719-075-66	DIODE	D5LC20U-4012
	D5016	8-719-028-45	DIODE	D2L20U
	D5017	8-719-028-45	DIODE	D2L20U
	D5018	8-719-083-83	DIODE	UDZS-TE17-15B
	D5019	8-719-404-50	DIODE	MA111-TX
	D5023	8-719-061-21	DIODE	FMQ-G5FMS
	D5027	8-719-404-50	DIODE	MA111-TX
	D5028	8-719-404-50	DIODE	MA111-TX
	D5032	8-719-404-50	DIODE	MA111-TX
	D5035	8-719-302-43	DIODE	EL1Z
	D5036	8-719-302-43	DIODE	EL1Z
	D5501	8-719-404-50	DIODE	MA111-TX
	D5502	8-719-404-50	DIODE	MA111-TX
	D5504	8-719-404-50	DIODE	MA111-TX
	D5506	8-719-404-50	DIODE	MA111-TX

REF. NO.	PART NO.	DESCRIPTION	VALUES
D5508	8-719-404-50	DIODE	MA111-TX
D5511	8-719-062-51	DIODE	1PS226-115
D5512	8-719-062-51	DIODE	1PS226-115
D5513	8-719-404-50	DIODE	MA111-TX
D5514	8-719-060-90	DIODE	S2L60F
D5515	8-719-404-50	DIODE	MA111-TX
D6502	8-719-979-64	DIODE	UF4005PKG23
D6504	8-719-075-66	DIODE	D5LC20U-4012
D6505	8-719-404-50	DIODE	MA111-TX
D6508	8-719-982-27	DIODE	MTZJ-33C
D6509	8-719-068-00	DIODE	ERC04-06SE
	(ALL EXCEPT KV-29DRC420LS)		
D6510	8-719-068-00	DIODE	ERC04-06SE
	(ALL EXCEPT KV-29DRC420LS)		
D6513	8-719-510-12	DIODE	D10SC4M
D6514	8-719-060-89	DIODE	D4SBS6-F
D6516	8-719-075-66	DIODE	D5LC20U-4012
D6518	8-719-052-90	DIODE	D1NL40-TA2
D6519	8-719-063-74	DIODE	D1NL20U-TR2
D6520	8-719-063-74	DIODE	D1NL20U-TR2
D6521	8-719-404-50	DIODE	MA111-TX
D6523	8-719-060-89	DIODE	D4SBS6-F
D6524	8-719-062-40	DIODE	D4SBL20µF3
D6525	8-719-982-27	DIODE	MTZJ-33C
D6530	8-719-510-53	DIODE	D4SB60L
D6532	8-719-948-45	DIODE	ERA22-08
D6533	8-719-404-50	DIODE	MA111-TX
D6534	8-719-404-50	DIODE	MA111-TX
D6537	8-719-404-50	DIODE	MA111-TX
D6538	8-719-109-85	DIODE	RD5.1ESB2
D8001	8-719-404-50	DIODE	MA111-TX
D8003	8-719-404-50	DIODE	MA111-TX
D8005	8-719-404-50	DIODE	MA111-TX
D8006	8-719-063-74	DIODE	D1NL20U-TR2
D8007	8-719-404-50	DIODE	MA111-TX
D8009	8-719-083-83	DIODE	UDZS-TE17-15B
D8010	8-719-979-64	DIODE	UF4005PKG23
D8011	8-719-110-41	DIODE	RD15ESB2
D8012	8-719-110-41	DIODE	RD15ESB2
D8013	8-719-083-83	DIODE	UDZS-TE17-15B
D8014	8-719-083-83	DIODE	UDZS-TE17-15B
D8015	8-719-404-50	DIODE	MA111-TX
D8016	8-719-948-45	DIODE	ERA22-08
D8017	8-719-948-45	DIODE	ERA22-08

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

DZ

REF. NO.	PART NO.	DESCRIPTION	VALUES
D8018	8-719-948-45	DIODE	ERA22-08
D8022	8-719-063-74	DIODE	D1NL20U-TR2
D8023	8-719-109-85	DIODE	RD5.1ESB2
D8024	8-719-109-85	DIODE	RD5.1ESB2
D8026	8-719-404-50	DIODE	MA111-TX
D8028	8-719-069-54	DIODE	UDZSTE-175.1B
D8030	8-719-083-66	DIODE	UDZSTE-1718B
D8034	8-719-921-63	DIODE	MTZJ-7.5B
D8140	8-719-404-50	DIODE	MA111-TX
	FERRITE BEAD		
FB5001	1-410-397-21	FERRITE	1.1µH
FB5002	1-543-298-11	FERRITE	0µH
FB5003	1-410-397-21	FERRITE	1.1µH
FB6501	1-410-397-21	FERRITE	1.1µH
FB6508	1-410-396-41	FERRITE	0.45µH
FB6509	1-410-396-41	FERRITE	0.45µH
FB6519	1-410-397-21	FERRITE	1.1µH
FB6520	1-412-911-11	FERRITE	0µH
FB6521	1-412-911-11	FERRITE	0µH
FB8001	1-412-911-11	FERRITE	0µH
FB8002	1-412-911-11	FERRITE	0µH
	IC		
IC5001	8-759-701-01	IC	NJM2904M
IC5002	8-759-700-07	IC	NJM2903M
IC5003	8-759-701-01	IC	NJM2904M
	(ALL EXCEPT KV-29DRC420LS)		
IC5004	8-759-696-71	IC	STV9379A
IC5005	8-759-803-42	IC	LA6500-FA
IC5006	8-749-013-76	IC	PQ6RD83B
IC5007	8-759-981-61	IC	LM2901M
IC5502	8-759-981-61	IC	LM2901M
IC5504	8-759-803-42	IC	LA6500-FA
IC5506	8-759-803-42	IC	LA6500-FA
IC5511	8-759-701-01	IC	NJM2904M
IC5512	8-759-929-65	IC	LM7912CT
IC5515	8-759-701-01	IC	NJM2904M
IC6501	6-705-810-01	IC	MCZ3001DB
IC6502	6-700-897-01	IC	PQ12RD21
IC6503	8-749-012-13	IC	DM-58
IC6505	8-749-921-86	IC	SE-140N
IC8001	8-759-700-07	IC	NJM2903M
IC8002	6-705-810-01	IC	MCZ3001DB
IC8004	8-759-701-01	IC	NJM2904M
⚠ IC8005	6-706-127-01	IC	TL1431ACZ-AP
IC8006	8-759-700-07	IC	NJM2903M
⚠ IC8104	6-706-127-01	IC	TL1431ACZ-AP
	CHIP CONDUCTOR		
JR5000	1-216-864-11	SHORT CHIP	
JR5001	1-216-864-11	SHORT CHIP	
JR5002	1-216-864-11	SHORT CHIP	
JR5003	1-216-864-11	SHORT CHIP	
JR5004	1-216-864-11	SHORT CHIP	
JR5005	1-216-864-11	SHORT CHIP	
JR5006	1-216-864-11	SHORT CHIP	
JR5007	1-216-864-11	SHORT CHIP	
JR5008	1-216-864-11	SHORT CHIP	
JR5009	1-216-864-11	SHORT CHIP	
JR5010	1-216-864-11	SHORT CHIP	
JR5011	1-216-864-11	SHORT CHIP	
JR5012	1-216-864-11	SHORT CHIP	
JR5013	1-216-864-11	SHORT CHIP	
JR5014	1-216-864-11	SHORT CHIP	
JR5015	1-216-864-11	SHORT CHIP	
JR5016	1-216-864-11	SHORT CHIP	
JR5065	1-216-864-11	SHORT CHIP	
JR5501	1-216-864-11	SHORT CHIP	
JR5504	1-216-864-11	SHORT CHIP	
JR5505	1-216-864-11	SHORT CHIP	
JR8000	1-216-864-11	SHORT CHIP	
JR8001	1-216-864-11	SHORT CHIP	
JR8002	1-216-864-11	SHORT CHIP	
JR8003	1-216-864-11	SHORT CHIP	
JR8005	1-216-864-11	SHORT CHIP	
JR8006	1-216-864-11	SHORT CHIP	
JR8007	1-216-864-11	SHORT CHIP	
JR8022	1-216-864-11	SHORT CHIP	
JR8023	1-216-864-11	SHORT CHIP	
JR8052	1-216-864-11	SHORT CHIP	
	(KV-29DRC420LS ONLY)		
	COIL		
L5001	1-406-665-11	INDUCTOR	100µH
L5003	1-406-892-31	INDUCTOR	4MH

DZ

REF. NO.	PART NO.	DESCRIPTION	VALUES
L5005	1-419-196-11	COIL, HORIZONTAL LINEARITY	
	(KV-27HS420, 29DRC420LN ONLY)		
L5005	1-424-874-11	COIL, HORIZONTAL LINEARITY	
	(KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY)		
L5005	1-424-997-11	COIL, HORIZONTAL LINEARITY	
	(KV-30HS420 ONLY)		
L5504	1-406-987-21	INDUCTOR	4.7MH
	(KV-30HS420 ONLY)		
L5504	1-406-989-21	INDUCTOR	10MH
	(ALL EXCEPT KV-30HS420)		
L5505	1-406-989-21	INDUCTOR	10MH
L5506	1-406-987--21	INDUCTOR	4.7MH
	(KV-30HS420 ONLY)		
L6501	1-412-525-31	INDUCTOR	10µH
L6502	1-412-525-31	INDUCTOR	10µH
L6503	1-412-525-31	INDUCTOR	10µH
L6505	1-406-665-11	INDUCTOR	100µH
L6506	1-412-525-31	INDUCTOR	10µH
L6507	1-412-525-31	INDUCTOR	10µH
L6510	1-412-523-41	INDUCTOR	6.8µH
L6511	1-412-523-41	INDUCTOR	6.8µH
L6514	1-412-525-31	INDUCTOR	10µH
L6517	1-412-521-31	INDUCTOR	4.7µH
L6518	1-412-521-31	INDUCTOR	4.7µH
L8002	1-428-950-31	INDUCTOR	125µH
L8005	1-406-674-11	INDUCTOR	3.3MH
	(ALL EXCEPT KV-30HS420)		
L8005	1-406-670-11	INDUCTOR	680µH
	(KV-30HS420 ONLY)		

PHOTO COUPLER

PH6501	8-749-016-81	PHOTO COUPLER	PC123Y22
PH6502	8-749-016-81	PHOTO COUPLER	PC123Y22
PH8001	8-749-016-81	PHOTO COUPLER	PC123Y22
PH8003	8-749-016-81	PHOTO COUPLER	PC123Y22
PH8004	8-749-016-81	PHOTO COUPLER	PC123Y22

IC LINK

PS6505	1-576-288-41	IC LINK	10A	90V
PS6506	1-576-288-41	IC LINK	10A	90V
PS6550	1-576-288-41	IC LINK	10A	90V
	(ALL EXCEPT KV-29DRC420LS)			

REF. NO.	PART NO.	DESCRIPTION	VALUES

TRANSISTOR

Q5001	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5002	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5003	8-729-027-97	TRANSISTOR	IRFI9630G-LF
Q5004	8-729-019-57	TRANSISTOR	2SA1208S-TP
Q5005	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5006	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5007	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5008	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5009	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5010	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5011	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5012	8-729-119-80	TRANSISTOR	2SC2688-LK
Q5013	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5014	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5015	8-729-046-80	TRANSISTOR	2SC4634LS-CB11
	(ALL EXCEPT KV-29DRC420LS)		
Q5018	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5019	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5020	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5021	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5022	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5023	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5024	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5025	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5026	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5027	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5028	8-729-038-83	TRANSISTOR	2SK2251-01-F19
Q5030	6-550-168-01	TRANSISTOR	2SC5682-RB
Q5031	6-550-188-01	TRANSISTOR	2SK3579-01MR-F119
Q5035	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5036	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5501	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5502	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5503	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5504	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q5505	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5506	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5507	8-729-052-29	TRANSISTOR	2SK2876-01MR-F122
Q5510	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5512	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5513	8-729-422-27	TRANSISTOR	2SD601A-Q

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REF. NO.	PART NO.	DESCRIPTION	VALUES
Q5568	8-729-422-27	TRANSISTOR	2SD601A-Q
Q5569	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q6506	8-729-052-32	TRANSISTOR	IRFIB7N50A-LF31
Q6507	8-729-052-32	TRANSISTOR	IRFIB7N50A-LF31
Q6522	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q6527	8-729-422-27	TRANSISTOR	2SD601A-Q
Q6530	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q6532	8-729-422-27	TRANSISTOR	2SD601A-Q
Q8003	8-729-422-27	TRANSISTOR	2SD601A-Q
Q8004	8-729-422-27	TRANSISTOR	2SD601A-Q
Q8007	8-729-422-27	TRANSISTOR	2SD601A-Q
Q8008	8-729-422-27	TRANSISTOR	2SD601A-Q
Q8011	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q8013	8-729-052-32	TRANSISTOR	IRFIB7N50A-LF31
Q8014	8-729-052-32	TRANSISTOR	IRFIB7N50A-LF31
Q8015	8-729-119-80	TRANSISTOR	2SC2688-LK
Q8016	8-729-045-65	TRANSISTOR	2SA1776TV2Q
Q8018	8-729-043-95	TRANSISTOR	2SC3840(3)
Q8019	8-729-422-27	TRANSISTOR	2SD601A-Q
Q8020	8-729-422-27	TRANSISTOR	2SD601A-Q
Q8021	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q8022	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q8023	8-729-422-27	TRANSISTOR	2SD601A-Q
Q8028	8-729-422-27	TRANSISTOR	2SD601A-Q
Q8034	8-729-422-27	TRANSISTOR	2SD601A-Q
Q8035	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX

RESISTOR

R5001	1-216-797-11	METAL CHIP	10	5%	1/10W
R5002	1-216-813-11	METAL CHIP	220	5%	1/10W
R5003	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5004	1-208-832-11	METAL CHIP	120K	0.50%	1/10W
R5005	1-216-813-11	METAL CHIP	220	5%	1/10W
R5007	1-208-832-11	METAL CHIP	120K	0.50%	1/10W
R5008	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5009	1-208-832-11	METAL CHIP	120K	0.50%	1/10W
R5010	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5011	1-208-832-11	METAL CHIP	120K	0.50%	1/10W
R5012	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R5013	1-216-373-11	METAL OXIDE	2.2	5%	2W
	(KV-30HS420 ONLY)				
R5013	1-216-393-00	METAL OXIDE	2.2	5%	3W
	(ALL EXCEPT KV-30HS420)				

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R5014	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
	(ALL EXCEPT KV-30HS420)				
R5014	1-218-698-11	METAL CHIP	1.8K	0.5%	1/10W
	(KV-30HS420 ONLY)				
R5015	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5016	1-208-832-11	METAL CHIP	120K	0.50%	1/10W
	(ALL EXCEPT KV-30HS420)				
R5016	1-208-834-11	METAL CHIP	150K	0.5%	1/10W
	(KV-30HS420 ONLY)				
R5017	1-208-832-11	METAL CHIP	120K	0.50%	1/10W
	(ALL EXCEPT KV-30HS420)				
R5017	1-208-834-11	METAL CHIP	150K	0.5%	1/10W
	(KV-30HS420 ONLY)				
R5018	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5019	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5020	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R5023	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5024	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5025	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R5026	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5027	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5028	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5029	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R5030	1-216-864-11	SHORT CHIP			
R5031	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R5033	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5035	1-218-720-11	METAL CHIP	15K	0.5%	1/10W
	(KV-30HS420 ONLY)				
R5036	1-216-839-11	METAL CHIP	33K	5%	1/10W
R5037	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5038	1-216-834-11	METAL CHIP	12K	5%	1/10W
R5040	1-218-748-11	METAL CHIP	220K	0.50%	1/10W
R5041	1-249-383-11	CARBON	1.5	5%	1/4W
R5042	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5043	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R5044	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5045	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5046	1-214-798-21	METAL	1.8	1%	1/2W
R5047	1-249-421-11	CARBON	2.2K	5%	1/4W
R5048	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5049	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5050	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5051	1-249-414-11	CARBON	560	5%	1/4W
R5052	1-214-796-00	METAL	1.5	1%	1/2W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R5053	1-215-890-11	METAL OXIDE	470	5%	2W
	(ALL EXCEPT KV-30HS420)				
R5053	1-215-892-11	METAL OXIDE	1K	5%	2W
	(KV-30HS420 ONLY)				
R5054	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5060	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5061	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5062	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5063	1-218-722-11	METAL CHIP	18K	0.50%	1/10W
	(ALL EXCEPT KV-30HS420)				
R5063	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
	(KV-30HS420 ONLY)				
R5064	1-218-748-11	METAL CHIP	220K	0.50%	1/10W
R5065	1-218-749-11	METAL CHIP	240K	0.50%	1/10W
	(KV-30HS420 ONLY)				
R5065	1-218-750-11	METAL CHIP	270K	0.50%	1/10W
	(ALL EXCEPT KV-30HS420)				
R5066	1-218-746-11	METAL CHIP	180K	0.50%	1/10W
	(ALL EXCEPT KV-30HS420)				
R5066	1-218-748-11	METAL CHIP	220K	0.50%	1/10W
	(KV-30HS420 ONLY)				
R5068	1-218-750-11	METAL CHIP	270K	0.50%	1/10W
	(ALL EXCEPT KV-29DRC420LS)				
R5069	1-216-841-11	METAL CHIP	47K	5%	1/10W
	(ALL EXCEPT KV-29DRC420LS)				
R5070	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
	(ALL EXCEPT KV-29DRC420LS)				
R5071	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
	(ALL EXCEPT KV-29DRC420LS)				
R5072	1-216-833-11	METAL CHIP	10K	5%	1/10W
	(ALL EXCEPT KV-29DRC420LS)				
R5073	1-216-833-11	METAL CHIP	10K	5%	1/10W
	(ALL EXCEPT KV-29DRC420LS)				
R5074	1-260-328-11	CARBON	1K	5%	1/2W
	(ALL EXCEPT KV-29DRC420LS)				
R5076	1-215-900-11	METAL OXIDE	22K	5%	2W
	(ALL EXCEPT KV-29DRC420LS)				
R5077	1-215-900-11	METAL OXIDE	22K	5%	2W
	(ALL EXCEPT KV-29DRC420LS)				
R5078	1-218-684-11	METAL CHIP	470	0.50%	1/10W
	(ALL EXCEPT KV-29DRC420LS)				
R5079	1-218-720-11	METAL CHIP	15K	0.50%	1/10W
R5080	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5081	1-218-728-11	METAL CHIP	33K	0.5%	1/10W
	(KV-30HS420 ONLY)				
R5081	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
	(ALL EXCEPT KV-30HS420)				
R5082	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R5083	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R5084	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5085	1-216-853-11	METAL CHIP	470K	5%	1/10W
R5086	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5087	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5090	1-216-369-00	METAL OXIDE	1	5%	2W
R5091	1-249-389-11	CARBON	4.7	5%	1/4W
R5092	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5093	1-218-717-11	METAL CHIP	11K	0.50%	1/10W
R5095	1-249-377-11	CARBON	0.47	5%	1/4W
R5096	1-249-377-11	CARBON	0.47	5%	1/4W
R5097	1-249-380-11	CARBON	0.82	5%	1/4W
R5098	1-249-379-11	CARBON	0.68	5%	1/4W
R5101	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R5102	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R5103	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R5104	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5105	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5106	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5107	1-249-393-11	CARBON	10	5%	1/4W
R5108	1-218-736-11	METAL CHIP	68K	0.50%	1/10W
R5109	1-218-728-11	METAL CHIP	33K	0.50%	1/10W
R5110	1-249-401-11	CARBON	47	5%	1/4W
R5111	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R5112	1-216-813-11	METAL CHIP	220	5%	1/10W
R5113	1-260-107-11	CARBON	4.7K	5%	1/2W
R5115	1-249-417-11	CARBON	1K	5%	1/4W
R5116	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5117	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5118	1-216-797-11	METAL CHIP	10	5%	1/10W
R5120	1-218-702-11	METAL CHIP	2.7K	0.50%	1/10W
R5124	1-216-809-11	METAL CHIP	100	5%	1/10W
R5125	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5126	1-216-809-11	METAL CHIP	100	5%	1/10W
R5127	1-215-890-11	METAL OXIDE	470	5%	2W
	(ALL EXCEPT KV-30HS420)				
R5127	1-215-892-11	METAL OXIDE	1K	5%	2W
	(KV-30HS420 ONLY)				
R5128	1-216-828-11	METAL CHIP	3.9K	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R5129	1-216-809-11	METAL CHIP	100	5%	1/10W
R5130	1-216-797-11	METAL CHIP	10	5%	1/10W
R5131	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
	(ALL EXCEPT KV-30HS420)				
R5131	1-218-710-11	METAL CHIP	5.6K	0.5%	1/10W
	(KV-30HS420 ONLY)				
R5132	1-215-895-11	METAL OXIDE	3.3K	5%	2W
	(KV-30HS420 ONLY)				
R5132	1-215-917-11	METAL OXIDE	1K	5%	3W
	(KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY)				
R5132	1-215-918-00	METAL OXIDE	1.5K		3W
	(KV-27HS420, 29DRC420LN ONLY)				
R5133	1-215-895-11	METAL OXIDE	3.3K	5%	2W
	(KV-30HS420 ONLY)				
R5133	1-215-917-11	METAL OXIDE	1K	5%	3W
	(KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY)				
R5133	1-215-918-00	METAL OXIDE	1.5K		3W
	(KV-27HS420, 29DRC420LN ONLY)				
R5135	1-215-895-11	METAL OXIDE	3.3K	5%	2W
	(KV-30HS420 ONLY)				
R5135	1-215-917-11	METAL OXIDE	1K	5%	3W
	(KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY)				
R5135	1-215-918-00	METAL OXIDE	1.5K		3W
	(KV-27HS420, 29DRC420LN ONLY)				
R5136	1-215-895-11	METAL OXIDE	3.3K	5%	2W
	(KV-30HS420 ONLY)				
R5136	1-215-917-11	METAL OXIDE	1K	5%	3W
	(KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY)				
R5136	1-215-918-00	METAL OXIDE	1.5K		3W
	(KV-27HS420, 29DRC420LN ONLY)				
R5137	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5138	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5139	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5141	1-215-890-11	METAL OXIDE	470	5%	2W
R5142	1-216-365-00	METAL OXIDE	0.47	5%	2W
R5143	1-216-365-00	METAL OXIDE	0.47	5%	2W
R5144	1-216-365-00	METAL OXIDE	0.47	5%	2W
R5145	1-215-880-00	METAL OXIDE	10	5%	2W
R5146	1-249-437-11	CARBON	47K	5%	1/4W
R5147	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
	(ALL EXCEPT KV-30HS420)				
R5147	1-218-710-11	METAL CHIP	5.6K	0.5%	1/10W
	(KV-30HS420 ONLY)				
R5148	1-215-865-11	METAL OXIDE	220	5%	1W
R5150	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R5151	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5153	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5154	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5158	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5160	1-216-809-11	METAL CHIP	100	5%	1/10W
R5163	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R5164	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5165	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5170	1-215-896-00	METAL OXIDE	4.7K		2W
	(KV-30HS420 ONLY)				
R5170	1-215-917-11	METAL OXIDE	1K	5%	3W
	(KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY)				
R5170	1-215-918-00	METAL OXIDE	1.5K		3W
	(KV-27HS420, 29DRC420LN ONLY)				
R5171	1-215-896-00	METAL OXIDE	4.7K		2W
	(KV-30HS420 ONLY)				
R5171	1-215-917-11	METAL OXIDE	1K	5%	3W
	(KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY)				
R5171	1-215-918-00	METAL OXIDE	1.5K		3W
	(KV-27HS420, 29DRC420LN ONLY)				
R5172	1-260-288-11	CARBON	0.47	5%	1/2W
R5173	1-260-288-11	CARBON	0.47	5%	1/2W
R5176	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5501	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
	(KV-30HS420 ONLY)				
R5501	1-218-730-11	METAL CHIP	39K	0.50%	1/10W
	(ALL EXCEPT KV-30HS420)				
R5502	1-216-864-11	SHORT CHIP			
R5503	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5505	1-218-750-11	METAL CHIP	270K	0.50%	1/10W
R5506	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5507	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5508	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5510	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5512	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5513	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5518	1-218-728-11	METAL CHIP	33K	0.50%	1/10W
R5519	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R5520	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5521	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5522	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R5523	1-218-744-11	METAL CHIP	150K	0.50%	1/10W
R5524	1-216-839-11	METAL CHIP	33K	5%	1/10W
R5525	1-216-853-11	METAL CHIP	470K	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R5526	1-216-853-11	METAL CHIP	470K	5%	1/10W
R5527	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5528	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5529	1-218-702-11	METAL CHIP	2.7K	0.50%	1/10W
R5530	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5532	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5533	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R5535	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5536	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5537	1-218-732-11	METAL CHIP	47K	0.50%	1/10W
R5538	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5539	1-216-849-11	METAL CHIP	220K	5%	1/10W
R5540	1-214-800-11	METAL	2.2	1%	1/2W
R5541	1-216-849-11	METAL CHIP	220K	5%	1/10W
R5542	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5543	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5544	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R5545	1-218-732-11	METAL CHIP	47K	0.50%	1/10W
R5546	1-216-864-11	SHORT CHIP			
R5547	1-216-821-11	METAL CHIP	1K	5%	1/10W
	(KV-30HS420 ONLY)				
R5547	1-216-837-11	METAL CHIP	22K	5%	1/10W
	(ALL EXCEPT KV-30HS420)				
R5548	1-216-821-11	METAL CHIP	1K	5%	1/10W
	(KV-30HS420 ONLY)				
R5548	1-216-841-11	METAL CHIP	47K	5%	1/10W
	(ALL EXCEPT KV-30HS420)				
R5549	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R5551	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5552	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5553	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R5554	1-218-732-11	METAL CHIP	47K	0.50%	1/10W
R5555	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5556	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R5557	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R5558	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R5559	1-218-720-11	METAL CHIP	15K	0.5%	1/10W
	(KV-30HS420 ONLY)				
R5559	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
	(ALL EXCEPT KV-30HS420)				
R5560	1-216-841-11	METAL CHIP	47K	5%	1/10W
	(ALL EXCEPT KV-29DRC420LS)				
R5561	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R5562	1-218-734-11	METAL CHIP	56K	0.50%	1/10W
	(ALL EXCEPT KV-29DRC420LS)				
R5565	1-249-377-11	CARBON	0.47	5%	1/4W
R5566	1-249-401-11	CARBON	47	5%	1/4W
R5567	1-216-809-11	METAL CHIP	100	5%	1/10W
R5568	1-216-853-11	METAL CHIP	470K	5%	1/10W
R5569	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5570	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5571	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5572	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5576	1-249-395-11	CARBON	15	5%	1/4W
R5578	1-218-730-11	METAL CHIP	39K	0.50%	1/10W
R5579	1-218-732-11	METAL CHIP	47K	0.50%	1/10W
R5580	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
	(ALL EXCEPT KV-30HS420)				
R5580	1-216-837-11	METAL CHIP	22K	5%	1/10W
	(KV-30HS420 ONLY)				
R5581	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R5582	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5588	1-216-353-00	METAL OXIDE	2.2	5%	1W
R5593	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R5594	1-216-833-11	METAL CHIP	10K	5%	1/10W
	(ALL EXCEPT KV-29DRC420LS)				
R5597	1-218-750-11	METAL CHIP	270K	0.50%	1/10W
R5603	1-216-857-11	METAL CHIP	1M	5%	1/10W
R5604	1-216-857-11	METAL CHIP	1M	5%	1/10W
R5711	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R5712	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R6501	1-218-662-11	METAL CHIP	56	0.50%	1/10W
R6502	1-260-131-11	CARBON	470K	5%	1/2W
R6503	1-216-835-11	METAL CHIP	15K	5%	1/10W
R6505	1-218-668-11	METAL CHIP	100	0.50%	1/10W
R6507	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6508	1-249-393-11	CARBON	10	5%	1/4W
R6509	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6510	1-249-393-11	CARBON	10	5%	1/4W
R6511	1-260-298-51	CARBON	3.3	5%	1/2W
R6513	1-245-478-31	METAL	470K	1%	1/4W
R6514	1-245-477-31	METAL	430K	1%	1/4W
R6515	1-260-131-11	CARBON	470K	5%	1/2W
⚠ R6516	1-244-207-11	WIREWOUND	3.3	5%	10W
R6517	1-218-714-11	METAL CHIP	8.2K	0.50%	1/10W
R6518	1-218-719-11	METAL CHIP	13K	0.50%	1/10W

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	REF. NO.	PART NO.	DESCRIPTION	VALUES		
	R6519	1-216-864-11	SHORT CHIP			
	R6521	1-260-328-11	CARBON	1K	5%	1/2W
	R6524	1-216-813-11	METAL CHIP	220	5%	1/10W
	R6525	1-216-813-11	METAL CHIP	220	5%	1/10W
	R6526	1-202-933-61	FUSIBLE	0.1	10%	1/2W
	R6527	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
	R6528	1-216-809-11	METAL CHIP	100	5%	1/10W
	R6529	1-249-393-11	CARBON	10	5%	1/4W
	R6530	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
	R6531	1-249-393-11	CARBON	10	5%	1/4W
	R6532	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R6533	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R6535	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R6536	1-249-417-11	CARBON	1K	5%	1/4W
	R6537	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R6538	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R6539	1-215-900-11	METAL OXIDE	22K	5%	2W
	R6542	1-216-821-11	METAL CHIP	1K	5%	1/10W
	R6544	1-216-864-11	SHORT CHIP			
	R6545	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
	R6547	1-216-864-11	SHORT CHIP			
	R6548	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
	R6556	1-243-979-71	METAL OXIDE	0.1	5%	2W
	R6557	1-243-979-71	METAL OXIDE	0.1	5%	2W
⚠	R6590	1-249-415-11	CARBON	680	5%	1/4W
	R6593	1-249-405-11	CARBON	100	5%	1/4W
	R6595	1-249-377-11	CARBON	0.47	5%	1/4W
	R6602	1-216-821-11	METAL CHIP	1K	5%	1/10W
	R6605	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
	R8001	1-216-809-11	METAL CHIP	100	5%	1/10W
	R8003	1-216-837-11	METAL CHIP	22K	5%	1/10W
	R8004	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
	R8005	1-216-837-11	METAL CHIP	22K	5%	1/10W
	R8006	1-245-494-31	METAL	2.2M	2%	1/4W
	R8007	1-245-494-31	METAL	2.2M	2%	1/4W
	R8010	1-216-864-11	SHORT CHIP			
	R8011	1-216-849-11	METAL CHIP	220K	5%	1/10W
	R8012	1-249-419-11	CARBON	1.5K	5%	1/4W
	R8013	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R8014	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
⚠	R8015	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
	R8016	1-247-843-11	CARBON	3.3K	5%	1/4W
⚠	R8017	1-218-705-11	METAL CHIP	3.6K	0.50%	1/10W
⚠	R8019	1-218-719-11	METAL CHIP	13K	0.50%	1/10W

	REF. NO.	PART NO.	DESCRIPTION	VALUES		
	R8020	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R8021	1-218-674-11	METAL CHIP	180	0.50%	1/10W
		(KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY)				
	R8021	1-216-864-11	SHORT CHIP			
		(KV-27HS420, 29DRC420LN, 30HS420 ONLY)				
	R8022	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R8024	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R8025	1-216-821-11	METAL CHIP	1K	5%	1/10W
	R8026	1-218-698-11	METAL CHIP	1.8K	0.50%	1/10W
	R8027	1-218-736-11	METAL CHIP	68K	0.50%	1/10W
	R8028	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
	R8029	1-218-736-11	METAL CHIP	68K	0.50%	1/10W
	R8030	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
	R8031	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
	R8032	1-216-844-11	METAL CHIP	82K	5%	1/10W
	R8033	1-216-821-11	METAL CHIP	1K	5%	1/10W
⚠	R8035	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W
⚠	R8036	1-215-415-00	METAL	560	1%	1/4W
		(KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY)				
⚠	R8036	1-215-419-00	METAL	820		1/4W
		(KV-27HS420, 29DRC420LN, 30HS420 ONLY)				
⚠	R8037	1-215-445-00	METAL	10K	1%	1/4W
		(KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY)				
⚠	R8037	1-215-447-00	METAL	12K		1/4W
		(KV-27HS420, 29DRC420LN, 30HS420 ONLY)				
⚠	R8038	1-215-445-00	METAL	10K	1%	1/4W
		(KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY)				
⚠	R8038	1-215-447-00	METAL	12K		1/4W
		(KV-27HS420, 29DRC420LN, 30HS420 ONLY)				
⚠	R8039	1-215-445-00	METAL	10K	1%	1/4W
		(KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY)				
⚠	R8039	1-215-447-00	METAL	12K		1/4W
		(KV-27HS420, 29DRC420LN, 30HS420 ONLY)				
⚠	R8040	1-215-443-00	METAL	8.2K		1/4W
		(KV-27HS420, 29DRC420LN, 30HS420 ONLY)				
⚠	R8040	1-215-445-00	METAL	10K	1%	1/4W
		(KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY)				
	R8041	1-216-864-11	SHORT CHIP			
⚠	R8043	1-215-447-00	METAL	12K	1%	1/4W
	R8046	1-218-696-11	METAL CHIP	1.5K	0.50%	1/10W
	R8049	1-218-668-11	METAL CHIP	100	0.50%	1/10W
	R8050	1-218-656-11	METAL CHIP	33	0.50%	1/10W
	R8051	1-202-933-61	FUSIBLE	0.1	10%	1/2W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R8052	1-218-732-11	METAL CHIP	47K		1/10W
	(KV-29DRC420LS ONLY)				
R8052	1-218-741-11	METAL CHIP	110K	0.50%	1/10W
	(KV-32HS420, 34HS420, 36HS420 ONLY)				
R8052	1-218-745-11	METAL CHIP	160K		1/10W
	(KV-27HS420, 29DRC420LN, 30HS420 ONLY)				
R8053	1-245-478-31	METAL	470K	1%	1/4W
R8054	1-245-478-31	METAL	470K	1%	1/4W
R8056	1-218-714-11	METAL CHIP	8.2K	0.50%	1/10W
R8057	1-218-719-11	METAL CHIP	13K	0.50%	1/10W
R8058	1-249-393-11	CARBON	10	5%	1/4W
R8059	1-216-813-11	METAL CHIP	220	5%	1/10W
R8060	1-216-813-11	METAL CHIP	220	5%	1/10W
R8061	1-249-393-11	CARBON	10	5%	1/4W
R8062	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8063	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8066	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8069	1-249-425-11	CARBON	4.7K	5%	1/4W
R8070	1-243-979-71	METAL OXIDE	0.1	5%	2W
R8072	1-249-377-11	CARBON	0.47	5%	1/4W
R8076	1-249-409-11	CARBON	220	5%	1/4W
R8077	1-216-864-11	SHORT CHIP			
⚠ R8078	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R8079	1-249-431-11	CARBON	15K	5%	1/4W
R8080	1-249-393-11	CARBON	10	5%	1/4W
	(ALL EXCEPT KV-30HS420)				
R8080	1-249-401-11	CARBON	47	5%	1/4W
	(KV-30HS420 ONLY)				
R8082	1-216-863-11	METAL CHIP	3.3M	5%	1/10W
R8085	1-219-748-11	METAL	4.7K	5%	1/2W
R8086	1-219-749-91	METAL	10K	5%	1/2W
R8087	1-216-864-11	SHORT CHIP			
R8088	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8089	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8090	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8093	1-208-834-11	METAL CHIP	150K	0.50%	1/10W
R8096	1-216-864-11	SHORT CHIP			
R8097	1-216-797-11	METAL CHIP	10	5%	1/10W
R8098	1-249-441-11	CARBON	100K	5%	1/4W
	(ALL EXCEPT KV-30HS420)				
R8099	1-249-441-11	CARBON	100K	5%	1/4W
	(ALL EXCEPT KV-30HS420)				
R8100	1-249-441-11	CARBON	100K	5%	1/4W
	(ALL EXCEPT KV-30HS420)				

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R8101	1-208-834-11	METAL CHIP	150K	0.50%	1/10W
R8102	1-249-433-11	CARBON	22K	5%	1/4W
R8103	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
R8104	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8105	1-216-809-11	METAL CHIP	100	5%	1/10W
R8106	1-249-377-11	CARBON	0.47	5%	1/4W
R8108	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8109	1-218-918-00	METAL OXIDE	1.5K		3W
	(KV-30HS420 ONLY)				
R8109	1-215-922-11	METAL OXIDE	6.8K	5%	3W
	(KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY)				
R8109	1-216-486-00	METAL OXIDE	8.2K		3W
	(KV-27HS420, 29DRC420LN ONLY)				
R8110	1-208-842-11	METAL CHIP	330K	0.50%	1/10W
R8111	1-216-486-00	METAL OXIDE	8.2K		3W
	(KV-27HS420, 29DRC420LN ONLY)				
R8111	1-218-918-00	METAL OXIDE	1.5K		3W
	(KV-30HS420 ONLY)				
R8111	1-215-922-11	METAL OXIDE	6.8K	5%	3W
	(KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY)				
R8112	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8113	1-208-842-11	METAL CHIP	330K	0.50%	1/10W
R8114	1-216-486-00	METAL OXIDE	8.2K		3W
	(KV-27HS420, 29DRC420LN ONLY)				
R8114	1-218-918-00	METAL OXIDE	1.5K		3W
	(KV-30HS420 ONLY)				
R8114	1-215-922-11	METAL OXIDE	6.8K	5%	3W
	(KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY)				
R8115	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8116	1-218-918-00	METAL OXIDE	1.5K		3W
	(KV-30HS420 ONLY)				
R8116	1-215-923-00	METAL OXIDE	10K		3W
	(KV-27HS420, 29DRC420LN ONLY)				
R8116	1-216-485-11	METAL OXIDE	5.6K	5%	3W
	(KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY)				
R8117	1-216-845-11	METAL CHIP	100K	5%	1/10W
R8118	1-216-839-11	METAL CHIP	33K	5%	1/10W
R8119	1-218-918-00	METAL OXIDE	1.5K		3W
	(KV-30HS420 ONLY)				
R8119	1-215-923-00	METAL OXIDE	10K		3W
	(KV-27HS420, 29DRC420LN ONLY)				
R8119	1-216-485-11	METAL OXIDE	5.6K	5%	3W
	(KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY)				
R8123	1-216-809-11	METAL CHIP	100	5%	1/10W

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DZ UY

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R8124	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8125	1-216-797-11	METAL CHIP	10	5%	1/10W
R8126	1-216-797-11	METAL CHIP	10	5%	1/10W
R8135	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8136	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8137	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8138	1-216-857-11	METAL CHIP	1M	5%	1/10W
R8144	1-216-849-11	METAL CHIP	220K	5%	1/10W
R8145	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8146	1-216-821-11	METAL CHIP	1K	5%	1/10W
R8150	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8151	1-216-841-11	METAL CHIP	47K	5%	1/10W
R8158	1-216-809-11	METAL CHIP	100	5%	1/10W
R8159	1-216-835-11	METAL CHIP	15K	5%	1/10W
R8160	1-216-853-11	METAL CHIP	470K	5%	1/10W
R8161	1-216-833-11	METAL CHIP	10K	5%	1/10W
⚠ R8165	1-218-742-11	METAL CHIP	120K	0.50%	1/10W
R8200	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8202	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8203	1-216-833-11	METAL CHIP	10K	5%	1/10W
R8204	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R8206	1-216-817-11	METAL CHIP	470	5%	1/10W

RELAY

⚠ RY6501	1-755-395-11	RELAY (AC POWER)	
⚠ RY6502	1-755-389-11	RELAY (AC POWER)	

SPARK GAP

SG8002	1-517-499-21	GAP, SPARK

TRANSFORMER

T5001	1-437-669-21	HORIZONTAL OUTPUT TRANSFORMER (ALL EXCEPT KV-30HS420)
T5002	1-435-636-21	TRANSFORMER, HORIZONTAL DRIVE
T6502	1-437-696-31	TRANSFORMER, CONVERTER
⚠ T8001	1-453-464-11	FBT ASSY, NX-6200//X4J4
T8003	1-437-664-11	TRANSFORMER, DYNAMIC FOCUS (ALL EXCEPT KV-30HS420)
T8004	1-439-991-11	TRANSFORMER, DYNAMIC FOCUS (KV-30HS420 ONLY)

REF. NO.	PART NO.	DESCRIPTION	VALUES		
	THERMISTOR				
TH5002	1-807-796-11	THERMISTOR			

UY

*	**A-1302-938-A**	**UY BOARD, COMPLETE**			
	CAPACITOR				
C1501	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
C1502	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C1503	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
C1504	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
C1505	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C1506	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
C1507	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
C1508	1-126-960-11	ELECT	1µF	20%	50V
C1509	1-126-960-11	ELECT	1µF	20%	50V
C1510	1-126-960-11	ELECT	1µF	20%	50V
C1511	1-126-960-11	ELECT	1µF	20%	50V
C1512	1-126-960-11	ELECT	1µF	20%	50V
C1513	1-126-960-11	ELECT	1µF	20%	50V
C1519	1-162-913-11	CERAMIC CHIP	8pF	0.50pF	50V
C1520	1-162-913-11	CERAMIC CHIP	8pF	0.50pF	50V
C1521	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C1522	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C1523	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C1524	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
C1525	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1526	1-126-964-11	ELECT	10µF	20%	50V
C1527	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C1528	1-126-933-11	ELECT	100µF	20%	16V
C1529	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
C1530	1-126-964-11	ELECT	10µF	20%	50V
C1531	1-126-941-11	ELECT	470µF	20%	25V
C1532	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C1533	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C1534	1-126-933-11	ELECT	100µF	20%	16V
C1535	1-126-933-11	ELECT	100µF	20%	16V
C1536	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C1537	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C1538	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C1539	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1540	1-126-933-11	ELECT	100µF	20%	16V

UY

REF. NO.	PART NO.	DESCRIPTION	VALUES		
C1541	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C1545	1-126-933-11	ELECT	100µF	20%	16V
C1546	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1548	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C1550	1-126-960-11	ELECT	1µF	20%	50V
C1551	1-126-960-11	ELECT	1µF	20%	50V
C1552	1-126-960-11	ELECT	1µF	20%	50V
C1553	1-126-960-11	ELECT	1µF	20%	50V
C1554	1-126-960-11	ELECT	1µF	20%	50V
C1555	1-126-960-11	ELECT	1µF	20%	50V
C1556	1-126-933-11	ELECT	100µF	20%	16V
C1557	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C1558	1-126-933-11	ELECT	100µF	20%	16V
C1559	1-126-933-11	ELECT	100µF	20%	16V
C1560	1-126-933-11	ELECT	100µF	20%	16V
C1561	1-126-933-11	ELECT	100µF	20%	16V
C1562	1-126-933-11	ELECT	100µF	20%	16V
C1563	1-126-933-11	ELECT	100µF	20%	16V

CONNECTOR

*	CN1501	1-764-334-11	PIN, CONNECTOR(PCB)(V TYPE)	11P	
	CN1502	1-793-173-11	PIN, PC CONNECTOR(PC BOARD)	50P	
	CN1503	1-793-419-11	CONNECTOR, BOARD TO BOARD	4P	

DIODE

D1501	8-719-977-28	DIODE	DTZ10B
D1502	8-719-977-28	DIODE	DTZ10B
D1503	8-719-977-28	DIODE	DTZ10B
D1504	8-719-977-28	DIODE	DTZ10B
D1505	8-719-977-28	DIODE	DTZ10B
D1506	8-719-977-28	DIODE	DTZ10B
D1507	8-719-977-28	DIODE	DTZ10B
D1508	8-719-977-28	DIODE	DTZ10B
D1509	8-719-977-28	DIODE	DTZ10B
D1510	8-719-977-28	DIODE	DTZ10B
D1511	8-719-977-28	DIODE	DTZ10B
D1512	8-719-977-28	DIODE	DTZ10B
D1513	8-719-977-28	DIODE	DTZ10B
D1514	8-719-977-28	DIODE	DTZ10B
D1515	8-719-977-28	DIODE	DTZ10B
D1516	8-719-977-28	DIODE	DTZ10B
D1517	8-719-977-28	DIODE	DTZ10B
D1518	8-719-914-43	DIODE	DAN202K
D1519	8-719-977-28	DIODE	DTZ10B
D1520	8-719-977-28	DIODE	DTZ10B
D1521	8-719-977-28	DIODE	DTZ10B
D1522	8-719-977-28	DIODE	DTZ10B
D1523	8-719-977-28	DIODE	DTZ10B
D1524	8-719-977-28	DIODE	DTZ10B
D1525	8-719-977-28	DIODE	DTZ10B
D1526	8-719-977-28	DIODE	DTZ10B
D1527	8-719-977-28	DIODE	DTZ10B
D1528	8-719-977-28	DIODE	DTZ10B
D1529	8-719-977-28	DIODE	DTZ10B
D1530	8-719-977-28	DIODE	DTZ10B
D1531	8-719-977-28	DIODE	DTZ10B
D1532	8-719-977-28	DIODE	DTZ10B
D1533	8-719-977-28	DIODE	DTZ10B
D1534	8-719-977-28	DIODE	DTZ10B
D1535	8-719-977-28	DIODE	DTZ10B

IC

IC1502	8-752-080-04	IC	CXA2069Q
IC1505	8-759-548-56	IC	M52055FP

JACK

J1501	1-573-967-12	BLOCK, (S) TERMINAL	
J1502	1-750-516-21	JACK BLOCK, PIN	2P
J1503	1-750-517-21	JACK BLOCK, PIN	3P
J1504	1-750-517-21	JACK BLOCK, PIN	3P
J1505	1-764-143-11	JACK	
J1506	1-764-143-11	JACK	
J1508	1-815-015-11	JACK BLOCK, PIN	
J1509	1-815-015-11	JACK BLOCK, PIN	

COIL

L1502	1-469-555-21	INDUCTOR	10µH
L1503	1-469-555-21	INDUCTOR	10µH
L1504	1-469-555-21	INDUCTOR	10µH
L1505	1-469-555-21	INDUCTOR	10µH
L1506	1-469-555-21	INDUCTOR	10µH

UY

REF. NO.	PART NO.	DESCRIPTION	VALUES
	TRANSISTOR		
Q1501	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q1502	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q1503	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q1504	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q1505	8-729-422-27	TRANSISTOR	2SD601A-Q
Q1506	8-729-422-27	TRANSISTOR	2SD601A-Q
Q1507	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q1508	8-729-422-27	TRANSISTOR	2SD601A-Q
Q1509	8-729-422-27	TRANSISTOR	2SD601A-Q
Q1510	8-729-422-27	TRANSISTOR	2SD601A-Q
Q1511	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q1512	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q1513	8-729-422-27	TRANSISTOR	2SD601A-Q
Q1515	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q1516	8-729-422-27	TRANSISTOR	2SD601A-Q
Q1518	8-729-422-27	TRANSISTOR	2SD601A-Q
Q1519	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q1520	8-729-422-27	TRANSISTOR	2SD601A-Q
Q1521	8-729-422-27	TRANSISTOR	2SD601A-Q
Q1522	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q1523	8-729-422-27	TRANSISTOR	2SD601A-Q
Q1524	8-729-422-27	TRANSISTOR	2SD601A-Q
	RESISTOR		
R1501	1-216-853-11	METAL CHIP	470K 5% 1/10W
R1502	1-216-853-11	METAL CHIP	470K 5% 1/10W
R1503	1-218-665-11	METAL CHIP	75 0.50% 1/10W
R1504	1-218-665-11	METAL CHIP	75 0.50% 1/10W
R1505	1-218-665-11	METAL CHIP	75 0.50% 1/10W
R1506	1-216-853-11	METAL CHIP	470K 5% 1/10W
R1507	1-216-853-11	METAL CHIP	470K 5% 1/10W
R1508	1-218-665-11	METAL CHIP	75 0.50% 1/10W
R1509	1-218-665-11	METAL CHIP	75 0.50% 1/10W
R1510	1-218-665-11	METAL CHIP	75 0.50% 1/10W
R1511	1-216-853-11	METAL CHIP	470K 5% 1/10W
R1512	1-216-853-11	METAL CHIP	470K 5% 1/10W
R1513	1-218-665-11	METAL CHIP	75 0.50% 1/10W
R1514	1-216-821-11	METAL CHIP	1K 5% 1/10W
R1520	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R1521	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R1522	1-216-824-11	METAL CHIP	1.8K 5% 1/10W
R1523	1-216-824-11	METAL CHIP	1.8K 5% 1/10W
R1524	1-216-809-11	METAL CHIP	100 5% 1/10W
R1525	1-216-809-11	METAL CHIP	100 5% 1/10W
R1526	1-216-821-11	METAL CHIP	1K 5% 1/10W
R1527	1-216-821-11	METAL CHIP	1K 5% 1/10W
R1530	1-216-809-11	METAL CHIP	100 5% 1/10W
R1531	1-216-809-11	METAL CHIP	100 5% 1/10W
R1532	1-216-809-11	METAL CHIP	100 5% 1/10W
R1533	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R1534	1-216-833-11	METAL CHIP	10K 5% 1/10W
R1535	1-216-821-11	METAL CHIP	1K 5% 1/10W
R1536	1-216-821-11	METAL CHIP	1K 5% 1/10W
R1537	1-216-821-11	METAL CHIP	1K 5% 1/10W
R1538	1-216-806-11	METAL CHIP	56 5% 1/10W
R1539	1-216-805-11	METAL CHIP	47 5% 1/10W
R1540	1-216-809-11	METAL CHIP	100 5% 1/10W
R1541	1-216-809-11	METAL CHIP	100 5% 1/10W
R1542	1-216-830-11	METAL CHIP	5.6K 5% 1/10W
R1543	1-216-809-11	METAL CHIP	100 5% 1/10W
R1544	1-216-830-11	METAL CHIP	5.6K 5% 1/10W
R1545	1-216-830-11	METAL CHIP	5.6K 5% 1/10W
R1546	1-216-809-11	METAL CHIP	100 5% 1/10W
R1547	1-216-830-11	METAL CHIP	5.6K 5% 1/10W
R1548	1-216-841-11	METAL CHIP	47K 5% 1/10W
R1549	1-216-809-11	METAL CHIP	100 5% 1/10W
R1550	1-216-809-11	METAL CHIP	100 5% 1/10W
R1551	1-216-853-11	METAL CHIP	470K 5% 1/10W
R1552	1-216-821-11	METAL CHIP	1K 5% 1/10W
R1554	1-216-809-11	METAL CHIP	100 5% 1/10W
R1555	1-216-853-11	METAL CHIP	470K 5% 1/10W
R1556	1-216-853-11	METAL CHIP	470K 5% 1/10W
R1557	1-216-830-11	METAL CHIP	5.6K 5% 1/10W
R1558	1-216-821-11	METAL CHIP	1K 5% 1/10W
R1559	1-218-665-11	METAL CHIP	75 0.50% 1/10W
R1560	1-216-845-11	METAL CHIP	100K 5% 1/10W
R1562	1-216-809-11	METAL CHIP	100 5% 1/10W
R1563	1-216-830-11	METAL CHIP	5.6K 5% 1/10W
R1565	1-216-809-11	METAL CHIP	100 5% 1/10W
R1566	1-216-809-11	METAL CHIP	100 5% 1/10W
R1567	1-216-833-11	METAL CHIP	10K 5% 1/10W
R1568	1-216-821-11	METAL CHIP	1K 5% 1/10W
R1569	1-216-809-11	METAL CHIP	100 5% 1/10W
R1570	1-216-809-11	METAL CHIP	100 5% 1/10W
R1571	1-216-809-11	METAL CHIP	100 5% 1/10W

UY

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R1572	1-216-809-11	METAL CHIP	100	5%	1/10W
R1573	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1574	1-216-809-11	METAL CHIP	100	5%	1/10W
R1575	1-216-809-11	METAL CHIP	100	5%	1/10W
R1576	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1577	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1578	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1579	1-216-842-11	METAL CHIP	56K	5%	1/10W
R1580	1-216-809-11	METAL CHIP	100	5%	1/10W
R1581	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1582	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1583	1-216-809-11	METAL CHIP	100	5%	1/10W
R1584	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1585	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1586	1-216-813-11	METAL CHIP	220	5%	1/10W
R1587	1-216-809-11	METAL CHIP	100	5%	1/10W
R1588	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1589	1-216-813-11	METAL CHIP	220	5%	1/10W
R1590	1-216-809-11	METAL CHIP	100	5%	1/10W
R1591	1-216-813-11	METAL CHIP	220	5%	1/10W
R1592	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1593	1-216-809-11	METAL CHIP	100	5%	1/10W
R1594	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1595	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1596	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1597	1-216-809-11	METAL CHIP	100	5%	1/10W
R1598	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1600	1-216-809-11	METAL CHIP	100	5%	1/10W
R1604	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1607	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1608	1-216-849-11	METAL CHIP	220K	5%	1/10W
R1609	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1610	1-216-849-11	METAL CHIP	220K	5%	1/10W
R1612	1-216-849-11	METAL CHIP	220K	5%	1/10W
R1613	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1615	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1616	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1617	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1618	1-216-864-11	SHORT CHIP			
R1619	1-216-809-11	METAL CHIP	100	5%	1/10W
R1620	1-216-809-11	METAL CHIP	100	5%	1/10W
R1623	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1624	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1625	1-218-676-11	METAL CHIP	220	0.50%	1/10W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R1626	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1627	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1628	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1629	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1630	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1631	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1632	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1635	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1636	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1637	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1645	1-216-809-11	METAL CHIP	100	5%	1/10W
R1646	1-216-803-11	METAL CHIP	33	5%	1/10W
R1647	1-216-803-11	METAL CHIP	33	5%	1/10W
R1648	1-216-803-11	METAL CHIP	33	5%	1/10W
R1649	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1650	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1651	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1652	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1653	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1654	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1655	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1656	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1657	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1658	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1659	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1660	1-218-676-11	METAL CHIP	220	0.50%	1/10W

VARISTOR

VD1512	1-803-974-21	VARISTOR, CHIP	(1608)
VD1513	1-803-974-21	VARISTOR, CHIP	(1608)
VD1516	1-803-974-21	VARISTOR, CHIP	(1608)

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

AY

REF. NO.	PART NO.	DESCRIPTION	VALUES		
AY					
*	**A-1302-932-A**	**AY BOARD, COMPLETE**			
	(KV-27HS420, 29DRC420LN ONLY)				
*	**A-1302-935-A**	**AY BOARD, COMPLETE**			
	(KV-30HS420 ONLY)				
*	**A-1302-941-A**	**AY BOARD, COMPLETE**			
	(KV-32HS420, 34HS420, 36HS420 ONLY)				
*	**A-1303-008-A**	**AY BOARD, COMPLETE**			
	(KV-29DRC420LS ONLY)				
	4-382-854-01	SCREW (M3X8), P, SW (+)			
	4-382-854-21	SCREW (M3X14), P, SW (+)			
	CAPACITOR				
	C501	1-165-529-31	MYLAR	0.22µF	10	0V
	C502	1-127-798-51	CERAMIC	4700pF	20%	250V
	(KV-29DRC420LS ONLY)					
⚠	C503	1-165-529-31	MYLAR	0.22µF	10	0V
	(ALL EXCEPT KV-29DRC420LS)					
⚠	C503	1-165-530-21	MYLAR	0.47µF	10	0V
	(KV-29DRC420LS ONLY)					
	C504	1-126-961-11	ELECT	2.2µF	20%	50V
	C505	1-127-794-51	CERAMIC	2200pF	20%	250V
	C506	1-126-971-11	ELECT	470µF	20%	50V
	C507	1-126-943-11	ELECT	2200µF	20%	25V
	C508	1-127-794-51	CERAMIC	2200pF	20%	250V
	C510	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
⚠	C512	1-165-529-31	MYLAR	0.22µF	10	0V
	(KV-29DRC420LS ONLY)					
⚠	C512	1-165-530-21	MYLAR	0.47µF	10	0V
	(ALL EXCEPT KV-29DRC420LS)					
	C513	1-126-961-11	ELECT	2.2µF	20%	50V
	C514	1-126-960-11	ELECT	1µF	20%	50V
	C515	1-126-947-11	ELECT	47µF	20%	35V
	C518	1-126-967-11	ELECT	47µF	20%	50V
	C528	1-126-933-11	ELECT	100µF	20%	16V
	C530	1-126-941-11	ELECT	470µF	20%	25V
	C536	1-126-933-11	ELECT	100µF	20%	16V
	C537	1-126-941-11	ELECT	470µF	20%	25V
	C540	1-126-767-11	ELECT	1000µF	20%	16V
	C542	1-126-941-11	ELECT	470µF	20%	25V
	C547	1-126-767-11	ELECT	1000µF	20%	16V
	C548	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
	C549	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
	C550	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
	C551	1-126-933-11	ELECT	100µF	20%	16V
	C553	1-126-767-11	ELECT	1000µF	20%	16V
	C554	1-126-933-11	ELECT	100µF	20%	16V
	C555	1-126-933-11	ELECT	100µF	20%	16V
	C556	1-126-767-11	ELECT	1000µF	20%	16V
	C558	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
	C559	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
	C560	1-126-935-11	ELECT	470µF	20%	16V
	C561	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
	C562	1-126-964-11	ELECT	10µF	20%	50V
	C563	1-126-947-11	ELECT	47µF	20%	35V
	C564	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
	C565	1-115-156-11	CERAMIC CHIP	1µF		10V
	C566	1-162-961-11	CERAMIC CHIP	330pF	10%	50V
	C567	1-165-176-11	CERAMIC CHIP	0.047µF	10%	16V
	C569	1-126-767-11	ELECT	1000µF	20%	16V
	C574	1-126-960-11	ELECT	1µF	20%	50V
	C577	1-126-960-11	ELECT	1µF	20%	50V
	C578	1-126-964-11	ELECT	10µF	20%	50V
	C579	1-126-957-11	ELECT	0.22µF	20%	50V
	C580	1-126-957-11	ELECT	0.22µF	20%	50V
	C583	1-136-161-00	FILM	0.047µF	5%	50V
	C584	1-126-960-11	ELECT	1µF	20%	50V
	C585	1-136-161-00	FILM	0.047µF	5%	50V
	C591	1-126-935-11	ELECT	470µF	20%	16V
	C593	1-126-935-11	ELECT	470µF	20%	16V
	C595	1-104-666-11	ELECT	220µF	20%	25V
	C597	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
	C598	1-130-495-00	MYLAR	0.1µF	5%	50V
	C599	1-126-953-11	ELECT	2200µF	20%	35V
	C601	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	C607	1-130-495-00	MYLAR	0.1µF	5%	50V
	C611	1-130-495-00	MYLAR	0.1µF	5%	50V
	C612	1-126-952-11	ELECT	1000µF	20%	35V
	C613	1-126-952-11	ELECT	1000µF	20%	35V
	C900	1-104-666-11	ELECT	220µF	20%	25V
	C903	1-104-666-11	ELECT	220µF	20%	25V
	(ALL EXCEPT KV-30HS420)					
	C909	1-136-177-00	FILM	1µF	5%	50V
	(ALL EXCEPT KV-30HS420)					

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

AY

	REF. NO.	PART NO.	DESCRIPTION	VALUES		
	C912	1-136-177-00	FILM	1µF	5%	50V
		(ALL EXCEPT KV-30HS420)				
	C915	1-162-959-11	CERAMIC CHIP	330pF	5%	50V
		(ALL EXCEPT KV-30HS420)				
	C918	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
		(ALL EXCEPT KV-30HS420)				
	C921	1-164-677-11	CERAMIC CHIP	0.033µF	10%	16V
		(ALL EXCEPT KV-30HS420)				
	C924	1-164-677-11	CERAMIC CHIP	0.033µF	10%	16V
		(ALL EXCEPT KV-30HS420)				
	C927	1-128-934-91	CERAMIC CHIP	0.33µF	20%	10V
		(ALL EXCEPT KV-30HS420)				
	C930	1-164-388-91	CERAMIC CHIP	270pF	5%	50V
		(ALL EXCEPT KV-30HS420)				
	C933	1-130-495-00	MYLAR	0.1µF	5%	50V
		(ALL EXCEPT KV-30HS420)				
	C939	1-126-933-11	ELECT	100µF	20%	16V
		(ALL EXCEPT KV-30HS420)				
	C942	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
		(ALL EXCEPT KV-30HS420)				
	C945	1-126-933-11	ELECT	100µF	20%	16V
		(ALL EXCEPT KV-30HS420)				

CONNECTOR

	CN501	1-695-915-11	TAB (CONTACT)	
*⚠	CN503	1-580-843-11	PIN, CONNECTOR (POWER)	
*	CN504	1-766-241-11	PIN, CONNECTOR (PC BOARD)	3P
		(ALL EXCEPT KV-27HS420, 29DRC420LN)		
*	CN505	1-766-241-11	PIN, CONNECTOR (PC BOARD)	3P
*	CN506	1-508-786-00	PIN, CONNECTOR (5MM PITCH)	2P
*	CN507	1-764-812-12	CONNECTOR, BOARD TO BOARD	11P
*	CN508	1-779-892-11	CONNECTOR, BOARD TO BOARD	10P
*	CN509	1-779-892-11	CONNECTOR, BOARD TO BOARD	10P
	CN510	1-793-494-11	CONNECTOR, BOARD TO BOARD	40P
*	CN514	1-766-240-11	PIN, CONNECTOR (PC BOARD)	2P
	CN515	1-695-915-11	TAB (CONTACT)	
	CN516	1-695-915-11	TAB (CONTACT)	
	CN517	1-695-915-11	TAB (CONTACT)	
	CN518	1-695-915-11	TAB (CONTACT)	
	CN519	1-695-915-11	TAB (CONTACT)	
	CN520	1-695-915-11	TAB (CONTACT)	
*	CN521	1-779-892-11	CONNECTOR, BOARD TO BOARD	10P
*	CN524	1-564-515-11	PLUG, CONNECTOR	12P
*	CN526	1-564-508-11	PLUG, CONNECTOR	5P
*	CN527	1-564-511-61	PLUG, CONNECTOR	8P
*	CN900	1-779-892-11	CONNECTOR, BOARD TO BOARD	10P
*	CN903	1-564-506-11	PLUG, CONNECTOR	3P
		(ALL EXCEPT KV-30HS420)		

DIODE

D501	8-719-991-33	DIODE	1SS133T-77
D502	8-719-991-33	DIODE	1SS133T-77
D503	8-719-511-40	DIODE	S1VB40
D504	8-719-991-33	DIODE	1SS133T-77
D505	8-719-991-33	DIODE	1SS133T-77
D508	8-719-991-33	DIODE	1SS133T-77
D509	8-719-991-33	DIODE	1SS133T-77
D510	8-719-991-33	DIODE	1SS133T-77
D511	8-719-991-33	DIODE	1SS133T-77
D512	8-719-991-33	DIODE	1SS133T-77
D513	8-719-991-33	DIODE	1SS133T-77
D514	8-719-991-33	DIODE	1SS133T-77
D515	8-719-991-33	DIODE	1SS133T-77
D516	8-719-991-33	DIODE	1SS133T-77
D517	8-719-991-33	DIODE	1SS133T-77
D519	8-719-991-33	DIODE	1SS133T-77
D520	8-719-991-33	DIODE	1SS133T-77
D521	8-719-991-33	DIODE	1SS133T-77
D522	8-719-991-33	DIODE	1SS133T-77
D524	8-719-991-33	DIODE	1SS133T-77
D526	8-719-991-33	DIODE	1SS133T-77
D530	8-719-924-13	DIODE	MTZJ-T-77-22B
D531	8-719-924-13	DIODE	MTZJ-T-77-22B
D534	8-719-991-33	DIODE	1SS133T-77
D535	8-719-991-33	DIODE	1SS133T-77
D540	8-719-991-33	DIODE	1SS133T-77
D541	8-719-991-33	DIODE	1SS133T-77
D548	8-719-991-33	DIODE	1SS133T-77
D900	8-719-110-31	DIODE	RD12ESB2
	(ALL EXCEPT KV-30HS420)		
D903	8-719-110-31	DIODE	RD12ESB2
	(ALL EXCEPT KV-30HS420)		

FUSE

⚠	F501	1-532-506-51	FUSE	6.3A 250V

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REF. NO.	PART NO.	DESCRIPTION	VALUES	
	FERRITE BEAD			
FB500	1-412-911-11	FERRITE	0µH	
	(ALL EXCEPT KV-29DRC420LS)			
FB501	1-412-911-11	FERRITE	0µH	
	(KV-29DRC420LS ONLY)			
FB502	1-412-911-11	FERRITE	0µH	
	FUSE HOLDER			
FH501	1-533-223-11	FUSE HOLDER	0A	0V
FH502	1-533-223-11	FUSE HOLDER	0A	0V
	IC			
IC501	8-759-450-47	IC	BA05T	
IC502	8-759-520-49	IC	PQ30RV21	
IC504	6-700-898-01	IC	PQ05RD21	
IC505	8-759-653-07	IC	PQ09RD21	
IC508	8-759-246-70	IC	TA8216H	
IC900	8-749-016-08	IC	STK390-910	
	(ALL EXCEPT KV-30HS420)			
IC903	8-759-595-52	IC	CXA8070AP	
	(ALL EXCEPT KV-30HS420)			
	CHIP CONDUCTOR			
JR501	1-216-864-11	SHORT CHIP		
JR502	1-216-864-11	SHORT CHIP		
JR509	1-216-864-11	SHORT CHIP		
JR510	1-216-864-11	SHORT CHIP		
JR511	1-216-864-11	SHORT CHIP		
JR512	1-216-864-11	SHORT CHIP		
JR513	1-216-864-11	SHORT CHIP		
JR514	1-216-864-11	SHORT CHIP		
JR515	1-216-864-11	SHORT CHIP		
JR516	1-216-864-11	SHORT CHIP		
	COIL			
L502	1-412-525-31	INDUCTOR	10µH	
L505	1-469-320-21	INDUCTOR	100µH	
L506	1-469-320-21	INDUCTOR	100µH	
L507	1-469-317-21	INDUCTOR	10µH	
L508	1-412-529-11	INDUCTOR	22µH	

REF. NO.	PART NO.	DESCRIPTION	VALUES		
⚠ L510	1-433-404-21	TRANSFORMER, LINE FILTER			
	(ALL EXCEPT KV-29DRC420LS)				
⚠ L510	1-433-900-11	TRANSFORMER, LINE FILTER			
	(KV-29DRC420LS ONLY)				
⚠ L511	1-433-404-21	TRANSFORMER, LINE FILTER			
L900	1-408-612-31	INDUCTOR	56µH		
	(ALL EXCEPT KV-30HS420)				
	IC LINK				
PS502	1-532-984-11	IC LINK	2A	50V	
	TRANSISTOR				
Q501	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q502	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q503	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q505	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q507	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q508	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q510	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q511	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q512	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q513	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q514	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q517	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q518	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q519	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q524	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q527	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
	RESISTOR				
R501	1-216-864-11	SHORT CHIP			
R502	1-244-207-11	RES, WIREWOUND	3.3	5%	10W
	(KV-29DRC420LS ONLY)				
R503	1-244-207-11	RES, WIREWOUND	3.3	5%	10W
	(KV-29DRC420LS ONLY)				
R504	1-216-833-11	METAL CHIP	10K	5%	1/10W
R505	1-216-833-11	METAL CHIP	10K	5%	1/10W
R506	1-216-857-11	METAL CHIP	1M	5%	1/10W
R507	1-247-895-91	CARBON	470K	5%	1/4W
R508	1-218-265-11	METAL	8.2M	5%	1W
	(KV-29DRC420LS ONLY)				

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	REF. NO.	PART NO.	DESCRIPTION	VALUES		
	R508	1-219-512-11	METAL	2.2M	5%	1/2W
		(ALL EXCEPT KV-29DRC420LS)				
⚠	R509	1-244-268-11	CEMENTED	1	5%	20W
		(KV-29DRC420LS ONLY)				
⚠	R509	1-244-270-11	CEMENTED	0.47	5%	20W
		(ALL EXCEPT KV-29DRC420LS)				
⚠	R510	1-244-268-11	CEMENTED	1	5%	20W
		(KV-29DRC420LS ONLY)				
⚠	R510	1-244-270-11	CEMENTED	0.47	5%	20W
		(ALL EXCEPT KV-29DRC420LS)				
	R511	1-216-849-11	METAL CHIP	220K	5%	1/10W
	R512	1-216-849-11	METAL CHIP	220K	5%	1/10W
	R513	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R515	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R516	1-216-857-11	METAL CHIP	1M	5%	1/10W
	R524	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R527	1-216-341-11	METAL OXIDE	0.22	5%	1W
	R531	1-216-821-11	METAL CHIP	1K	5%	1/10W
	R532	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
	R533	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R534	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
	R535	1-218-722-11	METAL CHIP	18K	0.50%	1/10W
	R536	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
	R537	1-218-750-11	METAL CHIP	270K	0.50%	1/10W
	R539	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
	R540	1-216-821-11	METAL CHIP	1K	5%	1/10W
	R542	1-216-821-11	METAL CHIP	1K	5%	1/10W
	R544	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
	R545	1-216-805-11	METAL CHIP	47	5%	1/10W
	R546	1-216-805-11	METAL CHIP	47	5%	1/10W
	R547	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
	R548	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
	R550	1-216-845-11	METAL CHIP	100K	5%	1/10W
	R551	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R552	1-216-837-11	METAL CHIP	22K	5%	1/10W
	R553	1-216-821-11	METAL CHIP	1K	5%	1/10W
	R554	1-216-864-11	SHORT CHIP			
	R555	1-216-833-11	METAL CHIP	10K	5%	1/10W
	R556	1-216-839-11	METAL CHIP	33K	5%	1/10W
	R557	1-216-821-11	METAL CHIP	1K	5%	1/10W
	R558	1-216-857-11	METAL CHIP	1M	5%	1/10W
	R559	1-216-847-11	METAL CHIP	150K	5%	1/10W
	R560	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
	R563	1-216-823-11	METAL CHIP	1.5K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R565	1-216-821-11	METAL CHIP	1K	5%	1/10W
R570	1-216-833-11	METAL CHIP	10K	5%	1/10W
R572	1-216-809-11	METAL CHIP	100	5%	1/10W
R573	1-216-847-11	METAL CHIP	150K	5%	1/10W
R574	1-216-809-11	METAL CHIP	100	5%	1/10W
R577	1-216-821-11	METAL CHIP	1K	5%	1/10W
R579	1-216-821-11	METAL CHIP	1K	5%	1/10W
R581	1-216-864-11	SHORT CHIP			
R582	1-216-864-11	SHORT CHIP			
R585	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R586	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R588	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R589	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R591	1-216-821-11	METAL CHIP	1K	5%	1/10W
R595	1-216-813-11	METAL CHIP	220	5%	1/10W
R596	1-216-833-11	METAL CHIP	10K	5%	1/10W
R598	1-216-833-11	METAL CHIP	10K	5%	1/10W
R599	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R601	1-216-813-11	METAL CHIP	220	5%	1/10W
R602	1-216-833-11	METAL CHIP	10K	5%	1/10W
R603	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R606	1-216-833-11	METAL CHIP	10K	5%	1/10W
R607	1-216-833-11	METAL CHIP	10K	5%	1/10W
R610	1-216-821-11	METAL CHIP	1K	5%	1/10W
R611	1-216-833-11	METAL CHIP	10K	5%	1/10W
R617	1-249-385-11	CARBON	2.2	5%	1/4W
R622	1-249-385-11	CARBON	2.2	5%	1/4W
R631	1-249-429-11	CARBON	10K	5%	1/4W
R632	1-249-429-11	CARBON	10K	5%	1/4W
R635	1-216-833-11	METAL CHIP	10K	5%	1/10W
R636	1-216-833-11	METAL CHIP	10K	5%	1/10W
R643	1-216-864-11	SHORT CHIP			
R646	1-216-864-11	SHORT CHIP			
R900	1-216-864-11	SHORT CHIP			
	(ALL EXCEPT KV-30HS420)				
R903	1-260-288-11	CARBON	0.47	5%	1/2W
	(ALL EXCEPT KV-30HS420)				
R906	1-260-288-11	CARBON	0.47	5%	1/2W
	(ALL EXCEPT KV-30HS420)				
R909	1-216-843-11	METAL CHIP	68K	5%	1/10W
	(ALL EXCEPT KV-30HS420)				
R912	1-216-381-11	METAL OXIDE	0.22	5%	3W
	(ALL EXCEPT KV-30HS420)				

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AY HBY

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R915	1-215-886-11	METAL OXIDE (ALL EXCEPT KV-30HS420)	100	5%	2W
R918	1-218-708-11	METAL CHIP (ALL EXCEPT KV-30HS420)	4.7K	0.50%	1/10W
R920	1-216-864-11	SHORT CHIP (ALL EXCEPT KV-30HS420)			
R921	1-218-708-11	METAL CHIP (ALL EXCEPT KV-30HS420)	4.7K	0.50%	1/10W
R927	1-218-696-11	METAL CHIP (ALL EXCEPT KV-30HS420)	1.5K	0.50%	1/10W
R930	1-218-708-11	METAL CHIP (ALL EXCEPT KV-30HS420)	4.7K	0.50%	1/10W
R933	1-218-708-11	METAL CHIP (ALL EXCEPT KV-30HS420)	4.7K	0.50%	1/10W
R939	1-216-805-11	METAL CHIP (ALL EXCEPT KV-30HS420)	47	5%	1/10W
R942	1-216-429-00	METAL OXIDE (ALL EXCEPT KV-30HS420)	270	5%	1W
R945	1-216-805-11	METAL CHIP (ALL EXCEPT KV-30HS420)	47	5%	1/10W
R948	1-216-845-11	METAL CHIP (ALL EXCEPT KV-30HS420)	100K	5%	1/10W
R949	1-218-708-11	METAL CHIP (ALL EXCEPT KV-30HS420)	4.7K	0.50%	1/10W
R950	1-218-708-11	METAL CHIP (ALL EXCEPT KV-30HS420)	4.7K	0.50%	1/10W
R951	1-216-845-11	METAL CHIP (ALL EXCEPT KV-30HS420)	100K	5%	1/10W
R954	1-216-821-11	METAL CHIP (ALL EXCEPT KV-30HS420)	1K	5%	1/10W

RELAY

⚠ RY501	1-755-389-11	RELAY (AC POWER)	

TRANSFORMER

T502	1-437-697-11	TRANSFORMER, STANDBY (ALL EXCEPT KV-29DRC420LS)	
T502	1-437-742-11	TRANSFORMER, STANDBY (KV-29DRC420LS ONLY)	

REF. NO.	PART NO.	DESCRIPTION	VALUES

THERMISTOR

⚠ TH501	1-803-540-11	THERMISTOR, POSITIVE (KV-29DRC420LS ONLY)	
⚠ TH501	1-803-970-11	THERMISTOR, POSITIVE (ALL EXCEPT KV-29DRC420LS)	

TUNER

TU502	8-598-593-40	TUNER, FSS BTF-WA421	

VARISTOR

⚠ VD501	1-804-992-21	VARISTOR (ALL EXCEPT KV-29DRC420LS)	
⚠ VD501	1-804-995-11	VARISTOR (KV-29DRC420LS ONLY)	

HBY

*	A-1302-942-A	**HBY BOARD, COMPLETE**	

CAPACITOR

C1100	1-126-960-11	ELECT	1µF	20%	50V
C1101	1-126-960-11	ELECT	1µF	20%	50V

CONNECTOR

* CN1100	1-764-334-11	PIN, CONNECTOR(PCB)(V TYPE)11P	

DIODE

D1100	8-719-977-28	DIODE	DTZ10B
D1101	8-719-977-28	DIODE	DTZ10B
D1103	8-719-977-28	DIODE	DTZ10B

FILTER

FL1103	1-409-755-11	FERRITE	0µH
FL1104	1-409-755-11	FERRITE	0µH

JACK

J1100	1-770-053-12	TERMINAL BLOCK, S(LIGHT ANGLE)	

HBY HCX CH

REF. NO.	PART NO.	DESCRIPTION	VALUES		
	CHIP CONDUCTOR				
JR1100	1-216-864-11	SHORT CHIP			
JR1101	1-216-864-11	SHORT CHIP			
JR1102	1-216-864-11	SHORT CHIP			
JR1103	1-216-864-11	SHORT CHIP			
JR1104	1-216-864-11	SHORT CHIP			
JR1105	1-216-864-11	SHORT CHIP			
JR1106	1-216-864-11	SHORT CHIP			
JR1107	1-216-864-11	SHORT CHIP			
	RESISTOR				
R1100	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1101	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1102	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R1103	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R1104	1-216-864-11	SHORT CHIP			
R1105	1-216-864-11	SHORT CHIP			
R1106	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1107	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R1108	1-216-864-11	SHORT CHIP			
	VARISTOR				
VD1102	1-803-974-21	VARISTOR, CHIP	(1608)		

HCX

*	**A-1302-943-A**	**HCX BOARD, COMPLETE**	
	CAPACITOR		
C1051	1-126-964-11	ELECT	10µF 20% 50V
	CONNECTOR		
* CN1052	1-564-509-11	PLUG, CONNECTOR 6P	
	DIODE		
D1051	8-719-070-80	DIODE	LNK0120022G
D1052	8-719-070-80	DIODE	LNK0120022G

REF. NO.	PART NO.	DESCRIPTION	VALUES		
	IC				
IC1051	8-742-212-20	HYB IC	SBX3081-71		
	RESISTOR				
R1052	1-249-409-11	CARBON	220	5%	1/4W
R1053	1-249-409-11	CARBON	220	5%	1/4W
R1054	1-249-433-11	CARBON	22K	5%	1/4W
R1055	1-249-385-11	CARBON	2.2	5%	1/4W
	SWITCH				
S1052	1-692-431-21	SWITCH, TACTILE			

CH

*	**A-1400-550-A**	**CH BOARD, MOUNTED**	
	7-682-647-09	SCREW +PS 3X6	
	CAPACITOR		
C9002	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V
C9003	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V
C9004	1-115-350-51	CERAMIC	0.0047µF 2KV
C9005	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V
C9009	1-163-227-11	CERAMIC CHIP	10pF 0.50pF 50V
C9010	1-163-227-11	CERAMIC CHIP	10pF 0.50pF 50V
C9011	1-161-830-00	CERAMIC	0.0047µF 500V
C9012	1-161-830-00	CERAMIC	0.0047µF 500V
C9013	1-163-035-00	CERAMIC CHIP	0.047µF 50V
C9014	1-161-830-00	CERAMIC	0.0047µF 500V
C9015	1-163-227-11	CERAMIC CHIP	10pF 0.50pF 50V
C9018	1-107-961-91	ELECT	10µF 20% 250V
C9019	1-163-035-00	CERAMIC CHIP	0.047µF 50V
C9020	1-107-961-91	ELECT	10µF 20% 250V
C9021	1-107-961-91	ELECT	10µF 20% 250V
C9022	1-101-004-00	CERAMIC	0.01µF 50V
C9023	1-101-004-00	CERAMIC	0.01µF 50V
C9024	1-163-035-00	CERAMIC CHIP	0.047µF 50V
C9025	1-104-653-11	ELECT	220µF 20% 16V
C9026	1-163-035-00	CERAMIC CHIP	0.047µF 50V
C9027	1-101-004-00	CERAMIC	0.01µF 50V
C9028	1-163-017-00	CERAMIC CHIP	0.0047µF 10% 50V

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CH

	REF. NO.	PART NO.	DESCRIPTION	VALUES		
	C9029	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
	C9030	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
	C9031	1-115-350-51	CERAMIC	0.0047µF		2KV
	C9032	1-162-116-00	CERAMIC	680pF	10%	2KV
	C9033	1-107-662-11	ELECT	22µF	20%	350V
	C9036	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
	C9042	1-126-940-11	ELECT	330µF	20%	25V
	C9046	1-126-933-11	ELECT	100µF	20%	16V
		CONNECTOR				
*	CN9001	1-764-334-11	PIN, CONNECTOR(PCB)(V TYPE)	11P		
*	CN9002	1-564-507-11	PLUG, CONNECTOR	4P		
	CN9003	1-695-915-11	TAB (CONTACT)			
	CN9004	1-695-915-11	TAB (CONTACT)			
	CN9005	1-695-915-11	TAB (CONTACT)			
	CN9009	1-785-879-11	CONNECTOR, ONE TOUCH			
		DIODE				
	D9002	8-719-977-28	DIODE	DTZ10B		
	D9005	8-719-404-50	DIODE	MA111-TX		
	D9006	8-719-051-85	DIODE	HSS83TD		
	D9007	8-719-051-85	DIODE	HSS83TD		
	D9008	8-719-051-85	DIODE	HSS83TD		
	D9009	8-719-908-03	DIODE	GP08D		
	D9010	8-719-110-17	DIODE	RD10ESB2		
		IC				
	IC9001	8-759-360-83	IC	TDA6111Q/N4		
	IC9002	8-759-360-83	IC	TDA6111Q/N4		
	IC9003	8-759-360-83	IC	TDA6111Q/N4		
		JACK				
⚠	J9001	1-451-544-11	SOCKET, CRT			
		COIL				
	L9002	1-408-591-11	INDUCTOR	1µH		
	L9003	1-408-591-11	INDUCTOR	1µH		
	L9004	1-408-591-11	INDUCTOR	1µH		
	L9005	1-406-666-21	INDUCTOR	150µH		
	L9006	1-412-525-31	INDUCTOR	10µH		

REF. NO.	PART NO.	DESCRIPTION	VALUES		
	TRANSISTOR				
Q9001	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q9003	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q9004	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q9005	8-729-422-27	TRANSISTOR	2SD601A-Q		
Q9009	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q9010	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q9011	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q9014	8-729-823-81	TRANSISTOR	2SC4632LS-CB7		
	RESISTOR				
R9001	1-216-041-00	RES-CHIP	470	5%	1/10W
R9006	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9007	1-208-789-11	METAL CHIP	2K	0.50%	1/10W
R9008	1-216-085-91	RES-CHIP	33K	5%	1/10W
R9012	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9013	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9014	1-216-033-00	RES-CHIP	220	5%	1/10W
R9015	1-249-409-11	CARBON	220	5%	1/4W
R9016	1-216-033-00	RES-CHIP	220	5%	1/10W
R9018	1-216-041-00	RES-CHIP	470	5%	1/10W
R9019	1-216-041-00	RES-CHIP	470	5%	1/10W
R9026	1-208-789-11	METAL CHIP	2K	0.50%	1/10W
R9031	1-208-789-11	METAL CHIP	2K	0.50%	1/10W
R9033	1-215-447-00	METAL	12K	1%	1/4W
R9034	1-215-439-00	METAL	5.6K	1%	1/4W
R9035	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W
R9036	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9037	1-240-233-71	METAL OXIDE	100	5%	3W
R9038	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W
R9039	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W
R9041	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9042	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9043	1-240-233-71	METAL OXIDE	100	5%	3W
R9044	1-240-233-71	METAL OXIDE	100	5%	3W
R9047	1-219-744-11	METAL	220	5%	1/2W
R9048	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9049	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9050	1-249-424-11	CARBON	3.9K	5%	1/4W
R9051	1-219-744-11	METAL	220	5%	1/2W
R9052	1-219-744-11	METAL	220	5%	1/2W

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

CH HAX WY

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R9053	1-249-424-11	CARBON	3.9K	5%	1/4W
R9054	1-249-424-11	CARBON	3.9K	5%	1/4W
R9056	1-219-743-11	METAL	100	5%	1/2W
R9057	1-219-510-11	METAL	470K	5%	1/2W
R9059	1-219-746-11	METAL	1K	5%	1/2W
R9061	1-219-743-11	METAL	100	5%	1/2W
R9062	1-260-123-11	CARBON	100K	5%	1/2W
R9063	1-216-097-11	RES-CHIP	100K	5%	1/10W
R9065	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R9068	1-216-101-00	RES-CHIP	150K	5%	1/10W
R9070	1-249-411-11	CARBON	330	5%	1/4W
R9071	1-249-411-11	CARBON	330	5%	1/4W
R9072	1-216-037-00	RES-CHIP	330	5%	1/10W
R9073	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9074	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R9077	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9089	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R9091	1-215-429-00	METAL	2.2K	1%	1/4W

VARIABLE RESISTOR

⚠ RV9001	1-241-714-11	RES, ADJ, METAL FILM 110M	

HAX

* **A-1405-292-A HAX BOARD, MOUNTED**

CONNECTOR

* CN1001	1-764-333-11	PIN, CONNECTOR(PCB)(V TYPE)	10P	
* CN1002	1-564-509-11	PLUG, CONNECTOR	6P	

RESISTOR

R1002	1-249-431-11	CARBON	15K	5%	1/4W
R1003	1-249-413-11	CARBON	470	5%	1/4W
R1004	1-249-415-11	CARBON	680	5%	1/4W
R1005	1-249-417-11	CARBON	1K	5%	1/4W
R1006	1-249-421-11	CARBON	2.2K	5%	1/4W
R1007	1-249-425-11	CARBON	4.7K	5%	1/4W
R1008	1-249-431-11	CARBON	15K	5%	1/4W
R1009	1-249-413-11	CARBON	470	5%	1/4W
R1010	1-249-415-11	CARBON	680	5%	1/4W
R1011	1-249-417-11	CARBON	1K	5%	1/4W
R1012	1-249-421-11	CARBON	2.2K	5%	1/4W
R1013	1-249-425-11	CARBON	4.7K	5%	1/4W

SWITCH

S1001	1-762-837-11	SWITCH, TACTILE
S1002	1-762-837-11	SWITCH, TACTILE
S1003	1-692-431-21	SWITCH, TACTILE
S1004	1-762-837-11	SWITCH, TACTILE
S1005	1-692-431-21	SWITCH, TACTILE
S1006	1-762-837-11	SWITCH, TACTILE
S1007	1-692-431-21	SWITCH, TACTILE
S1008	1-762-837-11	SWITCH, TACTILE

WY

* **A-1415-589-A WY (VAR) BOARD, MOUNTED**
(KV-30HS420 ONLY)

* **A-1415-602-A WY (VAR) BOARD, MOUNTED**
(ALL EXCEPT KV-30HS420)

4-382-854-01 SCREW (M3X8), P, SW (+)

CAPACITOR

C9101	1-104-999-11	MYLAR	0.1µF	5%	200V
C9102	1-130-495-00	MYLAR	0.1µF	5%	50V
	(KV-30HS420 ONLY)				
C9104	1-126-933-11	ELECT	100µF	20%	16V
C9105	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C9106	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9108	1-107-662-11	ELECT	22µF	20%	350V
C9109	1-161-830-00	CERAMIC	0.0047µF		500V
C9110	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9111	1-126-964-11	ELECT	10µF	20%	50V
C9112	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C9113	1-137-528-11	MYLAR	0.1µF	10%	250V
C9114	1-107-636-11	ELECT	10µF	20%	160V
C9115	1-137-528-11	MYLAR	0.1µF	10%	250V
C9116	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C9117	1-117-450-11	MYLAR	0.47µF	10%	250V
C9118	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C9120	1-130-495-00	MYLAR	0.1µF	5%	50V
C9121	1-126-947-11	ELECT	47µF	20%	35V
C9125	1-130-495-00	MYLAR	0.1µF	5%	50V

WY

	REF. NO.	PART NO.	DESCRIPTION	VALUES		
	C9126	1-126-947-11	ELECT	47µF	20%	35V
	C9127	1-130-495-00	MYLAR	0.1µF	5%	50V
	C9128	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
	C9129	1-136-177-00	FILM	1µF	5%	50V
	C9144	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
		CONNECTOR				
*	CN9100	1-564-515-11	PLUG, CONNECTOR	12P		
*	CN9101	1-564-506-11	PLUG, CONNECTOR	3P		
*	CN9102	1-564-509-11	PLUG, CONNECTOR	6P		
*	CN9103	1-770-747-11	CONNECTOR, BOARD TO BOARD	12P		
*	CN9104	1-564-506-11	PLUG, CONNECTOR	3P		
*	CN9105	1-564-506-11 (KV-30HS420 ONLY)	PLUG, CONNECTOR	3P		
		FERRITE BEAD				
	FB9100	1-410-397-21	FERRITE	1.1µH		
	FB9101	1-410-397-21	FERRITE	1.1µH		
		IC				
	IC9100	8-759-822-38	IC	LA6510		
		COIL				
	L9100	1-412-525-31	INDUCTOR	10µH		
	L9104	1-406-979-11 (KV-30HS420 ONLY)	COIL, CHOKE	220µH		
	L9105	1-412-536-31 (KV-30HS420 ONLY)	INDUCTOR	82µH		
		TRANSISTOR				
	Q9100	8-729-422-27	TRANSISTOR	2SD601A-Q		
	Q9101	8-729-422-27	TRANSISTOR	2SD601A-Q		
	Q9102	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
	Q9103	8-729-422-27	TRANSISTOR	2SD601A-Q		
	Q9104	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
	Q9105	8-729-422-27	TRANSISTOR	2SD601A-Q		
	Q9106	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
	Q9107	8-729-422-27	TRANSISTOR	2SD601A-Q		
	Q9108	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
	Q9109	8-729-422-27	TRANSISTOR	2SD601A-Q		
	Q9110	8-729-045-04	TRANSISTOR	2SC5511		
	Q9111	8-729-045-05	TRANSISTOR	2SA2005		
	Q9121	8-729-422-27	TRANSISTOR	2SD601A-Q		
	Q9122	8-729-422-27	TRANSISTOR	2SD601A-Q		
	Q9123	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
	Q9124	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
		RESISTOR				
	R9101	1-216-805-11	METAL CHIP	47	5%	1/10W
	R9102	1-260-322-11	CARBON	330	5%	1/2W
	R9103	1-216-819-11	METAL CHIP	680	5%	1/10W
	R9104	1-216-820-11	METAL CHIP	820	5%	1/10W
	R9105	1-216-837-11	METAL CHIP	22K	5%	1/10W
	R9106	1-218-715-11	METAL CHIP	9.1K	0.50%	1/10W
	R9107	1-216-809-11	METAL CHIP	100	5%	1/10W
	R9108	1-216-817-11	METAL CHIP	470	5%	1/10W
	R9109	1-216-817-11	METAL CHIP	470	5%	1/10W
	R9110	1-216-805-11	METAL CHIP	47	5%	1/10W
	R9111	1-216-805-11	METAL CHIP	47	5%	1/10W
	R9112	1-249-389-11	CARBON	4.7	5%	1/4W
	R9113	1-249-389-11	CARBON	4.7	5%	1/4W
	R9114	1-249-389-11	CARBON	4.7	5%	1/4W
	R9115	1-249-389-11	CARBON	4.7	5%	1/4W
	R9116	1-249-389-11	CARBON	4.7	5%	1/4W
	R9117	1-249-389-11	CARBON	4.7	5%	1/4W
	R9118	1-249-389-11	CARBON	4.7	5%	1/4W
	R9119	1-249-389-11	CARBON	4.7	5%	1/4W
	R9120	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
	R9121	1-216-848-11	METAL CHIP	180K	5%	1/10W
	R9122	1-216-847-11	METAL CHIP	150K	5%	1/10W
	R9123	1-216-848-11	METAL CHIP	180K	5%	1/10W
	R9124	1-216-847-11	METAL CHIP	150K	5%	1/10W
	R9125	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
	R9126	1-216-805-11	METAL CHIP	47	5%	1/10W
	R9127	1-216-805-11	METAL CHIP	47	5%	1/10W
	R9128	1-215-888-00	METAL OXIDE	220	5%	2W
	R9129	1-216-864-11 (KV-30HS420 ONLY)	SHORT CHIP			
	R9130	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
	R9131	1-218-730-11	METAL CHIP	39K	0.50%	1/10W
	R9132	1-218-713-11	METAL CHIP	7.5K	0.50%	1/10W
	R9133	1-249-391-11	CARBON	6.8	5%	1/4W
	R9134	1-249-383-11	CARBON	1.5	5%	1/4W

WY BY

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R9135	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R9138	1-218-712-11	METAL CHIP	6.8K	0.50%	1/10W
R9139	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R9140	1-216-864-11	SHORT CHIP			
	(ALL EXCEPT KV-30HS420)				
R9141	1-214-657-11	METAL	1	1%	1/4W
R9142	1-214-657-11	METAL	1	1%	1/4W
R9143	1-216-429-00	METAL OXIDE	270	5%	1W
R9144	1-215-867-00	METAL OXIDE	470	5%	1W
R9145	1-218-712-11	METAL CHIP	6.8K	0.50%	1/10W
R9150	1-218-712-11	METAL CHIP	6.8K	0.50%	1/10W
R9187	1-249-389-11	CARBON	4.7	5%	1/4W
R9188	1-249-389-11	CARBON	4.7	5%	1/4W
R9189	1-249-389-11	CARBON	4.7	5%	1/4W
R9190	1-249-389-11	CARBON	4.7	5%	1/4W

BY

* **A-1302-940-A BY BOARD, COMPLETE**

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.

CAPACITOR

C2801	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2802	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2804	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C2805	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2806	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2808	1-128-996-11	ELECT CHIP	4.7µF	20%	50V
C2809	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2810	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2811	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2812	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2813	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2814	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2815	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2816	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2817	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2818	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C2819	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2820	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2821	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2822	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2823	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2824	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2825	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C2826	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2827	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2828	1-110-563-11	CERAMIC CHIP	0.068µF	10%	16V
C2829	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C2830	1-128-996-11	ELECT CHIP	4.7µF	20%	50V
C2831	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2833	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V
C2834	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2835	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2836	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2837	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2840	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2841	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2842	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2843	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2844	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2845	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2846	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2847	1-127-715-91	CERAMIC CHIP	0.22µF	10%	16V
C2849	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C2850	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2851	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3001	1-128-453-21	ELECT CHIP	47µF	20%	6.3V
C3002	1-128-453-21	ELECT CHIP	47µF	20%	6.3V
C3003	1-128-453-21	ELECT CHIP	47µF	20%	6.3V
C3005	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3006	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3008	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3009	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3011	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3012	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3013	1-128-391-11	ELECT CHIP	330µF	20%	6.3V
C3014	1-128-391-11	ELECT CHIP	330µF	20%	6.3V
C3015	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3016	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3017	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C3018	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3019	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3020	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3021	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3023	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V

BY

REF. NO.	PART NO.	DESCRIPTION	VALUES		
C3024	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C3025	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3026	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3027	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3028	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3029	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3030	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3031	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3032	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3033	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
C3034	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3035	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3036	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3037	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3038	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3040	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3042	1-128-391-11	ELECT CHIP	330µF	20%	6.3V
C3044	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3046	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3047	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3048	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3049	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3089	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3090	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3095	1-117-681-11	ELECT CHIP	100µF	20%	16V
C3096	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3097	1-117-681-11	ELECT CHIP	100µF	20%	16V
C3098	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3101	1-162-925-11	CERAMIC CHIP	68pF	5%	50V
C3102	1-162-925-11	CERAMIC CHIP	68pF	5%	50V
C3103	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3301	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3302	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3303	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C3304	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3305	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3307	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3308	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3309	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C3313	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3314	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3315	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3316	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3317	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3318	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3319	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3325	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3326	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3329	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3333	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3334	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3335	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3337	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3341	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3343	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3349	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3350	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3351	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3357	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3358	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3359	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3360	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3363	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3364	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3365	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3366	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3367	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3368	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3369	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3370	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3371	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3372	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3374	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3375	1-127-760-11	CERAMIC CHIP	4.7µF	10%	6.3V
C3376	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3377	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3378	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3379	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3401	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3402	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3403	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3404	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C3405	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C3406	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3407	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3408	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C3409	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3410	1-164-156-11	CERAMIC CHIP	0.1µF		25V

BY

REF. NO.	PART NO.	DESCRIPTION	VALUES		
C3411	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3412	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3413	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3414	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3415	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3416	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3417	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3418	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3419	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3420	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3421	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3422	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3423	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3424	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3425	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C3426	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3428	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3429	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3430	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3431	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3432	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3433	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3434	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3435	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3436	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3437	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3438	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3439	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3440	1-162-916-11	CERAMIC CHIP	12pF	5%	50V
C3441	1-162-916-11	CERAMIC CHIP	12pF	5%	50V
C3442	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3443	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3444	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3445	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3446	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3447	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3448	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3449	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3450	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3452	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3453	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3454	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3455	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3456	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3457	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3458	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3460	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C3462	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3463	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3464	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3465	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3466	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3467	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3468	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C3469	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3470	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C3473	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3474	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3475	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3476	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3477	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3478	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3479	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3480	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3481	1-117-681-11	ELECT CHIP	100µF	20%	16V
C3482	1-117-681-11	ELECT CHIP	100µF	20%	16V
C3483	1-117-681-11	ELECT CHIP	100µF	20%	16V
C3484	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C3485	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3486	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3487	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3488	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3489	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3490	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3491	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3492	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3493	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3494	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3495	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3496	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3499	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3500	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C3501	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3613	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C3614	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3615	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3617	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3618	1-127-760-11	CERAMIC CHIP	4.7µF	10%	6.3V

BY

	REF. NO.	PART NO.	DESCRIPTION	VALUES		
	C3619	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
	C3620	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
	C3622	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	C3623	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	C3624	1-164-156-11	CERAMIC CHIP	0.1µF		25V
	C3906	1-126-204-11	ELECT CHIP	47µF	20%	16V
	C3912	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
		CONNECTOR				
*	CN2803	1-564-509-11	PLUG, CONNECTOR		6P	
*	CN2805	1-764-334-11	PIN, CONNECTOR(PCB)(V TYPE)		11P	
		DIODE				
	D2803	8-719-404-50	DIODE	MA111-TX		
	D2806	8-719-069-55	DIODE	UDZSTE-175.6B		
	D3001	8-719-404-50	DIODE	MA111-TX		
	D3002	8-719-083-58	DIODE	UDZSTE-173.9B		
	D3089	8-719-800-76	DIODE	1SS226		
	D3090	8-719-800-76	DIODE	1SS226		
	D3401	8-719-914-43	DIODE	DAN202K		
	D3402	8-719-914-44	DIODE	DAP202K		
	D3403	8-719-978-33	DIODE	DTZ-TT11-6.8B		
	D3404	8-719-404-50	DIODE	MA111-TX		
		FERRITE BEAD				
	FB3001	1-500-451-11	FERRITE	0µH		
	FB3002	1-216-864-11	SHORT CHIP			
	FB3303	1-216-809-11	METAL CHIP	100	5%	1/10W
	FB3304	1-469-110-21	FERRITE	0µH		
	FB3401	1-414-235-22	FERRITE	0µH		
	FB3402	1-414-235-22	FERRITE	0µH		
	FB3403	1-216-864-11	SHORT CHIP			
	FB3624	1-216-864-11	SHORT CHIP			
		FILTER				
	FL3001	1-234-177-21	FERRITE	0µH		
	FL3002	1-234-177-21	FERRITE	0µH		
	FL3003	1-781-924-21	FILTER, LOW PASS (SMD)			
	FL3301	1-234-558-21	FILTER, LOW PASS			
	FL3302	1-234-557-21	FILTER, LOW PASS			
	FL3303	1-234-557-21	FILTER, LOW PASS			
	FL3401	1-781-923-21	FILTER, LOW PASS (SMD)			
		IC				
	IC2801	8-752-102-68	IC	CXA2170Q		
	IC3002	8-759-583-47	IC	UPC2933T-E2		

REF. NO.	PART NO.	DESCRIPTION	VALUES
IC3003	6-701-892-01	IC	TC90A90F(BH,DRY)
IC3004	8-759-642-22	IC	UPC29M05T-E2
IC3089	6-704-573-01	IC	M24C32-WMN6T(B)
IC3090	6-801-376-01	IC	MB94918RpF-G-147-BND
IC3091	8-759-352-91	IC	PST9143NL
IC3302	6-700-398-01	IC	UPC2918T-E1
IC3303	8-752-409-78	IC	CXD2095AQ
IC3306	8-759-669-78	IC	TLC2933IPWR-12
IC3401	6-700-399-01	IC	UPC2925T-E1
IC3402	6-702-318-01	IC	W986432DH-6
IC3403	8-759-460-29	IC	PST9120NL
IC3404	8-759-669-75	IC	TLC2932IPWR
IC3405	8-759-485-79	IC	TC7SET08FU(TE85L)
IC3406	8-759-485-79	IC	TC7SET08FU(TE85L)
IC3407	8-759-485-79	IC	TC7SET08FU(TE85L)
IC3408	8-759-672-57	IC	CXD9509AQ
IC3409	8-759-833-72	IC	NJM2870F25-TE2
IC3410	8-752-409-20	IC	CXD2309AQ
IC3411	8-759-082-57	IC	TC7W04FU
IC3413	8-759-549-07	IC	SN74LV157APWR
IC3414	8-759-548-56	IC	M52055FP
IC3608	8-759-669-75	IC	TLC2932IPWR
	COIL		
L2801	1-469-555-21	INDUCTOR	10µH
L2803	1-469-555-21	INDUCTOR	10µH
L2804	1-469-555-21	INDUCTOR	10µH
L2805	1-469-555-21	INDUCTOR	10µH
L2806	1-469-555-21	INDUCTOR	10µH
L2807	1-469-555-21	INDUCTOR	10µH
L2811	1-469-555-21	INDUCTOR	10µH
L3001	1-216-295-91	SHORT CHIP	
L3004	1-412-026-11	INDUCTOR	1µH
L3005	1-412-026-11	INDUCTOR	1µH
L3007	1-469-555-21	INDUCTOR	10µH
L3009	1-469-555-21	INDUCTOR	10µH
L3010	1-469-555-21	INDUCTOR	10µH
L3011	1-469-555-21	INDUCTOR	10µH
L3089	1-414-233-22	FERRITE	0µH
L3102	1-469-552-21	INDUCTOR	3.3µH
L3304	1-469-555-21	INDUCTOR	10µH
L3310	1-469-561-21	INDUCTOR	100µH
L3311	1-469-561-21	INDUCTOR	100µH
L3402	1-412-052-21	INDUCTOR	1µH

BY

REF. NO.	PART NO.	DESCRIPTION	VALUES
L3403	1-469-561-21	INDUCTOR	100µH
L3404	1-469-561-21	INDUCTOR	100µH
L3405	1-469-555-21	INDUCTOR	10µH
L3406	1-469-555-21	INDUCTOR	10µH
L3407	1-469-555-21	INDUCTOR	10µH
L3409	1-469-555-21	INDUCTOR	10µH
L3411	1-412-058-11	INDUCTOR	10µH
L3412	1-469-555-21	INDUCTOR	10µH
L3413	1-469-555-21	INDUCTOR	10µH
L3414	1-469-555-21	INDUCTOR	10µH
L3416	1-469-555-21	INDUCTOR	10µH
L3418	1-469-555-21	INDUCTOR	10µH
L3903	1-412-052-21	INDUCTOR	1µH
	TRANSISTOR		
Q2801	8-729-122-63	TRANSISTOR	2SA1226-E4
Q2802	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2803	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2804	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2805	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2806	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2807	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2811	8-729-122-63	TRANSISTOR	2SA1226-E4
Q2812	8-729-122-63	TRANSISTOR	2SA1226-E4
Q2813	8-729-122-63	TRANSISTOR	2SA1226-E4
Q2818	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2819	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2820	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2821	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2822	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2823	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3003	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3005	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3006	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3007	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3008	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3009	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3089	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3090	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3092	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3093	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3302	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3303	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3305	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3306	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3307	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3308	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3309	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3310	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3311	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3401	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3402	8-729-028-28	TRANSISTOR	2SK2036(TE85L)
Q3403	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3404	8-729-028-28	TRANSISTOR	2SK2036(TE85L)
Q3405	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3406	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3407	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3408	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3409	8-729-422-27	TRANSISTOR	2SD601A-Q
Q3410	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3411	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3412	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3413	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3414	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3415	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q3416	8-729-422-27	TRANSISTOR	2SD601A-Q
	RESISTOR		
R2801	1-218-867-11	METAL CHIP	6.8K 0.50% 1/10W
R2803	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R2804	1-216-805-11	METAL CHIP	47 5% 1/10W
R2805	1-216-823-11	METAL CHIP	1.5K 5% 1/10W
R2806	1-216-863-11	METAL CHIP	3.3M 5% 1/10W
R2807	1-216-809-11	METAL CHIP	100 5% 1/10W
R2808	1-216-834-11	METAL CHIP	12K 5% 1/10W
R2809	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R2810	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R2811	1-216-809-11	METAL CHIP	100 5% 1/10W
R2812	1-218-708-11	METAL CHIP	4.7K 0.50% 1/10W
R2813	1-216-833-11	METAL CHIP	10K 5% 1/10W
R2815	1-216-833-11	METAL CHIP	10K 5% 1/10W
R2816	1-216-845-11	METAL CHIP	100K 5% 1/10W
R2817	1-216-809-11	METAL CHIP	100 5% 1/10W
R2818	1-216-809-11	METAL CHIP	100 5% 1/10W
R2819	1-216-809-11	METAL CHIP	100 5% 1/10W
R2820	1-216-809-11	METAL CHIP	100 5% 1/10W
R2821	1-216-809-11	METAL CHIP	100 5% 1/10W
R2823	1-216-841-11	METAL CHIP	47K 5% 1/10W

BY

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2824	1-216-809-11	METAL CHIP	100	5%	1/10W
R2825	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2826	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R2827	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2828	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R2829	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2830	1-216-818-11	METAL CHIP	560	5%	1/10W
R2831	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2832	1-216-809-11	METAL CHIP	100	5%	1/10W
R2833	1-216-809-11	METAL CHIP	100	5%	1/10W
R2834	1-216-809-11	METAL CHIP	100	5%	1/10W
R2835	1-216-809-11	METAL CHIP	100	5%	1/10W
R2836	1-216-809-11	METAL CHIP	100	5%	1/10W
R2837	1-216-809-11	METAL CHIP	100	5%	1/10W
R2838	1-216-809-11	METAL CHIP	100	5%	1/10W
R2839	1-216-809-11	METAL CHIP	100	5%	1/10W
R2840	1-216-809-11	METAL CHIP	100	5%	1/10W
R2841	1-216-809-11	METAL CHIP	100	5%	1/10W
R2842	1-216-809-11	METAL CHIP	100	5%	1/10W
R2843	1-216-809-11	METAL CHIP	100	5%	1/10W
R2844	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R2845	1-216-809-11	METAL CHIP	100	5%	1/10W
R2846	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R2847	1-216-809-11	METAL CHIP	100	5%	1/10W
R2848	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2849	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2850	1-216-809-11	METAL CHIP	100	5%	1/10W
R2851	1-216-815-11	METAL CHIP	330	5%	1/10W
R2853	1-216-864-11	SHORT CHIP			
R2854	1-216-864-11	SHORT CHIP			
R2858	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R2860	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2861	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2862	1-216-809-11	METAL CHIP	100	5%	1/10W
R2865	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2866	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2867	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2868	1-216-809-11	METAL CHIP	100	5%	1/10W
R2869	1-216-809-11	METAL CHIP	100	5%	1/10W
R2870	1-216-809-11	METAL CHIP	100	5%	1/10W
R2880	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R2881	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R2883	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2884	1-216-825-11	METAL CHIP	2.2K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2885	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2886	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2887	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2889	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2890	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2891	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2892	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2893	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2894	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2895	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2896	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2897	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2898	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2899	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R2900	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2901	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2902	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2907	1-216-807-11	METAL CHIP	68	5%	1/10W
R2908	1-216-807-11	METAL CHIP	68	5%	1/10W
R2909	1-216-807-11	METAL CHIP	68	5%	1/10W
R2911	1-216-864-11	SHORT CHIP			
R2913	1-216-864-11	SHORT CHIP			
R2919	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R2920	1-216-864-11	SHORT CHIP			
R2921	1-216-864-11	SHORT CHIP			
R2922	1-216-864-11	SHORT CHIP			
R3002	1-216-864-11	SHORT CHIP			
R3004	1-216-864-11	SHORT CHIP			
R3013	1-216-809-11	METAL CHIP	100	5%	1/10W
R3014	1-216-809-11	METAL CHIP	100	5%	1/10W
R3015	1-216-809-11	METAL CHIP	100	5%	1/10W
R3017	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3020	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3021	1-216-809-11	METAL CHIP	100	5%	1/10W
R3022	1-216-809-11	METAL CHIP	100	5%	1/10W
R3023	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3025	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3026	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3029	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3030	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3031	1-216-809-11	METAL CHIP	100	5%	1/10W
R3032	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3033	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3034	1-216-821-11	METAL CHIP	1K	5%	1/10W

BY

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R3035	1-216-809-11	METAL CHIP	100	5%	1/10W
R3036	1-216-809-11	METAL CHIP	100	5%	1/10W
R3037	1-216-809-11	METAL CHIP	100	5%	1/10W
R3038	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R3039	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R3040	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R3043	1-216-864-11	SHORT CHIP			
R3045	1-216-809-11	METAL CHIP	100	5%	1/10W
R3047	1-216-864-11	SHORT CHIP			
R3049	1-216-859-11	METAL CHIP	1.5M	5%	1/10W
R3050	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3051	1-216-864-11	SHORT CHIP			
R3056	1-216-817-11	METAL CHIP	470	5%	1/10W
R3057	1-216-817-11	METAL CHIP	470	5%	1/10W
R3058	1-216-817-11	METAL CHIP	470	5%	1/10W
R3059	1-216-809-11	METAL CHIP	100	5%	1/10W
R3060	1-216-809-11	METAL CHIP	100	5%	1/10W
R3061	1-216-809-11	METAL CHIP	100	5%	1/10W
R3063	1-216-864-11	SHORT CHIP			
R3064	1-216-864-11	SHORT CHIP			
R3066	1-216-809-11	METAL CHIP	100	5%	1/10W
R3068	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3069	1-216-820-11	METAL CHIP	820	5%	1/10W
R3070	1-216-864-11	SHORT CHIP			
R3071	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3072	1-216-855-11	METAL CHIP	680K	5%	1/10W
R3073	1-216-855-11	METAL CHIP	680K	5%	1/10W
R3074	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R3075	1-216-801-11	METAL CHIP	22	5%	1/10W
R3076	1-216-864-11	SHORT CHIP			
R3077	1-216-841-11	METAL CHIP	47K	5%	1/10W
R3078	1-216-815-11	METAL CHIP	330	5%	1/10W
R3079	1-216-815-11	METAL CHIP	330	5%	1/10W
R3089	1-216-864-11	SHORT CHIP			
R3091	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3092	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3093	1-216-864-11	SHORT CHIP			
R3095	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3096	1-216-817-11	METAL CHIP	470	5%	1/10W
R3097	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3098	1-216-805-11	METAL CHIP	47	5%	1/10W
R3099	1-216-805-11	METAL CHIP	47	5%	1/10W
R3100	1-216-809-11	METAL CHIP	100	5%	1/10W
R3101	1-216-809-11	METAL CHIP	100	5%	1/10W
R3102	1-216-809-11	METAL CHIP	100	5%	1/10W
R3103	1-216-809-11	METAL CHIP	100	5%	1/10W
R3104	1-216-809-11	METAL CHIP	100	5%	1/10W
R3105	1-216-809-11	METAL CHIP	100	5%	1/10W
R3107	1-216-864-11	SHORT CHIP			
R3108	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3110	1-216-809-11	METAL CHIP	100	5%	1/10W
R3111	1-216-809-11	METAL CHIP	100	5%	1/10W
R3116	1-216-797-11	METAL CHIP	10	5%	1/10W
R3117	1-216-797-11	METAL CHIP	10	5%	1/10W
R3302	1-216-817-11	METAL CHIP	470	5%	1/10W
R3303	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R3304	1-216-809-11	METAL CHIP	100	5%	1/10W
R3323	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3324	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3325	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3326	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3335	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3341	1-216-813-11	METAL CHIP	220	5%	1/10W
R3342	1-218-705-11	METAL CHIP	3.6K	0.50%	1/10W
R3343	1-216-809-11	METAL CHIP	100	5%	1/10W
R3344	1-216-853-11	METAL CHIP	470K	5%	1/10W
R3345	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R3346	1-216-809-11	METAL CHIP	100	5%	1/10W
R3347	1-216-815-11	METAL CHIP	330	5%	1/10W
R3348	1-216-864-11	SHORT CHIP			
R3349	1-218-687-11	METAL CHIP	620	0.50%	1/10W
R3350	1-216-814-11	METAL CHIP	270	5%	1/10W
R3351	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3352	1-216-853-11	METAL CHIP	470K	5%	1/10W
R3353	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3354	1-216-813-11	METAL CHIP	220	5%	1/10W
R3355	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3357	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R3358	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R3359	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R3360	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3364	1-216-864-11	SHORT CHIP			
R3365	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3366	1-216-864-11	SHORT CHIP			
R3367	1-216-805-11	METAL CHIP	47	5%	1/10W
R3369	1-216-864-11	SHORT CHIP			
R3370	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3371	1-218-686-11	METAL CHIP	560	0.50%	1/10W

BY

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R3372	1-216-817-11	METAL CHIP	470	5%	1/10W	R3441	1-216-809-11	METAL CHIP	100	5%	1/10W
R3373	1-216-817-11	METAL CHIP	470	5%	1/10W	R3442	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3374	1-216-809-11	METAL CHIP	100	5%	1/10W	R3445	1-216-864-11	SHORT CHIP			
R3375	1-218-686-11	METAL CHIP	560	0.50%	1/10W	R3446	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3376	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W	R3447	1-216-819-11	METAL CHIP	680	5%	1/10W
R3377	1-216-817-11	METAL CHIP	470	5%	1/10W	R3448	1-216-855-11	METAL CHIP	680K	5%	1/10W
R3378	1-216-817-11	METAL CHIP	470	5%	1/10W	R3451	1-216-809-11	METAL CHIP	100	5%	1/10W
R3379	1-216-809-11	METAL CHIP	100	5%	1/10W	R3452	1-216-864-11	SHORT CHIP			
R3380	1-218-686-11	METAL CHIP	560	0.50%	1/10W	R3454	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3381	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W	R3457	1-216-813-11	METAL CHIP	220	5%	1/10W
R3382	1-216-864-11	SHORT CHIP				R3460	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3383	1-216-817-11	METAL CHIP	470	5%	1/10W	R3461	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3384	1-216-864-11	SHORT CHIP				R3464	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3385	1-216-864-11	SHORT CHIP				R3465	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3386	1-216-864-11	SHORT CHIP				R3466	1-216-813-11	METAL CHIP	220	5%	1/10W
R3387	1-216-864-11	SHORT CHIP				R3467	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3388	1-216-864-11	SHORT CHIP				R3468	1-216-864-11	SHORT CHIP			
R3389	1-216-864-11	SHORT CHIP				R3469	1-216-864-11	SHORT CHIP			
R3390	1-216-864-11	SHORT CHIP				R3470	1-216-809-11	METAL CHIP	100	5%	1/10W
R3391	1-216-864-11	SHORT CHIP				R3471	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3392	1-216-864-11	SHORT CHIP				R3472	1-216-801-11	METAL CHIP	22	5%	1/10W
R3393	1-216-864-11	SHORT CHIP				R3473	1-216-864-11	SHORT CHIP			
R3394	1-216-864-11	SHORT CHIP				R3475	1-216-809-11	METAL CHIP	100	5%	1/10W
R3400	1-216-864-11	SHORT CHIP				R3476	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3401	1-216-864-11	SHORT CHIP				R3477	1-216-809-11	METAL CHIP	100	5%	1/10W
R3406	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3478	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3407	1-216-864-11	SHORT CHIP				R3480	1-216-809-11	METAL CHIP	100	5%	1/10W
R3409	1-216-864-11	SHORT CHIP				R3483	1-216-809-11	METAL CHIP	100	5%	1/10W
R3410	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3484	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3411	1-216-797-11	METAL CHIP	10	5%	1/10W	R3485	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3421	1-216-864-11	SHORT CHIP				R3486	1-216-801-11	METAL CHIP	22	5%	1/10W
R3422	1-216-864-11	SHORT CHIP				R3489	1-216-864-11	SHORT CHIP			
R3423	1-216-813-11	METAL CHIP	220	5%	1/10W	R3490	1-216-864-11	SHORT CHIP			
R3426	1-216-809-11	METAL CHIP	100	5%	1/10W	R3491	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3428	1-469-094-21	FERRITE	0µH			R3492	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3429	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R3493	1-216-809-11	METAL CHIP	100	5%	1/10W
R3432	1-216-815-11	METAL CHIP	330	5%	1/10W	R3494	1-216-813-11	METAL CHIP	220	5%	1/10W
R3434	1-216-809-11	METAL CHIP	100	5%	1/10W	R3495	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3435	1-216-809-11	METAL CHIP	100	5%	1/10W	R3496	1-216-801-11	METAL CHIP	22	5%	1/10W
R3436	1-216-809-11	METAL CHIP	100	5%	1/10W	R3497	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3437	1-216-809-11	METAL CHIP	100	5%	1/10W	R3498	1-216-818-11	METAL CHIP	560	5%	1/10W
R3438	1-216-809-11	METAL CHIP	100	5%	1/10W	R3499	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3439	1-216-809-11	METAL CHIP	100	5%	1/10W	R3501	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3440	1-216-809-11	METAL CHIP	100	5%	1/10W	R3502	1-216-821-11	METAL CHIP	1K	5%	1/10W

BY

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R3503	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3504	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3505	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3506	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3507	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3508	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3509	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3510	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3511	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3512	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3533	1-216-809-11	METAL CHIP	100	5%	1/10W
R3535	1-216-809-11	METAL CHIP	100	5%	1/10W
R3536	1-216-864-11	SHORT CHIP			
R3537	1-216-864-11	SHORT CHIP			
R3800	1-216-864-11	SHORT CHIP			
R3802	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3803	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3804	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3805	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3807	1-218-670-11	METAL CHIP	120	0.50%	1/10W
R3808	1-218-670-11	METAL CHIP	120	0.50%	1/10W
R3809	1-218-670-11	METAL CHIP	120	0.50%	1/10W
R3810	1-218-670-11	METAL CHIP	120	0.50%	1/10W
R3811	1-216-809-11	METAL CHIP	100	5%	1/10W
R3812	1-216-809-11	METAL CHIP	100	5%	1/10W
R3813	1-216-809-11	METAL CHIP	100	5%	1/10W
R3814	1-218-644-11	METAL CHIP	10	0.50%	1/10W
R3815	1-218-648-11	METAL CHIP	15	0.50%	1/10W
R3816	1-218-652-11	METAL CHIP	22	0.50%	1/10W
R3817	1-218-652-11	METAL CHIP	22	0.50%	1/10W
R3820	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R3821	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R3822	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R3823	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R3824	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R3825	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R3826	1-216-809-11	METAL CHIP	100	5%	1/10W
R3828	1-218-682-11	METAL CHIP	390	0.50%	1/10W
R3829	1-218-682-11	METAL CHIP	390	0.50%	1/10W
R3830	1-218-682-11	METAL CHIP	390	0.50%	1/10W
R3831	1-216-864-11	SHORT CHIP			
R3832	1-216-864-11	SHORT CHIP			
R3833	1-216-864-11	SHORT CHIP			
R3834	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3835	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3836	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3837	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3838	1-218-678-11	METAL CHIP	270	0.50%	1/10W
R3839	1-218-670-11	METAL CHIP	120	0.50%	1/10W
R3840	1-216-805-11	METAL CHIP	47	5%	1/10W
R3841	1-218-670-11	METAL CHIP	120	0.50%	1/10W
R3842	1-218-689-11	METAL CHIP	750	0.50%	1/10W
R3846	1-216-801-11	METAL CHIP	22	5%	1/10W
R3847	1-216-801-11	METAL CHIP	22	5%	1/10W
R3848	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3849	1-218-675-11	METAL CHIP	200	0.50%	1/10W
R3850	1-218-675-11	METAL CHIP	200	0.50%	1/10W
R3851	1-216-809-11	METAL CHIP	100	5%	1/10W
R3852	1-218-675-11	METAL CHIP	200	0.50%	1/10W
R3854	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3857	1-216-809-11	METAL CHIP	100	5%	1/10W
R3858	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R3862	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3863	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R3864	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3865	1-216-809-11	METAL CHIP	100	5%	1/10W
R3866	1-414-234-22	FERRITE	0µH		
R3867	1-414-234-22	FERRITE	0µH		
R3868	1-414-234-22	FERRITE	0µH		
R3881	1-216-807-11	METAL CHIP	68	5%	1/10W
R3882	1-216-807-11	METAL CHIP	68	5%	1/10W
R3883	1-216-807-11	METAL CHIP	68	5%	1/10W
R3911	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3933	1-216-864-11	SHORT CHIP			
R3937	1-216-809-11	METAL CHIP	100	5%	1/10W
R3953	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3954	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3955	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3956	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3957	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3958	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R3975	1-216-864-11	SHORT CHIP			
R3976	1-216-864-11	SHORT CHIP			
R3977	1-216-864-11	SHORT CHIP			
R3978	1-216-864-11	SHORT CHIP			
R3979	1-216-864-11	SHORT CHIP			
R3980	1-216-864-11	SHORT CHIP			
R3981	1-216-864-11	SHORT CHIP			

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REF. NO.	PART NO.	DESCRIPTION	VALUES
R3982	1-216-864-11	SHORT CHIP	
R3983	1-216-864-11	SHORT CHIP	
R3984	1-218-644-11	METAL CHIP	10 0.50% 1/10W
R3985	1-218-644-11	METAL CHIP	10 0.50% 1/10W
R3986	1-218-644-11	METAL CHIP	10 0.50% 1/10W
	RESISTOR BRIDGE		
RB3001	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3002	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3003	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3004	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3011	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3013	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3014	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3015	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3304	1-233-576-11	RES, CHIP NETWORK	100 (3216)
RB3305	1-233-576-11	RES, CHIP NETWORK	100 (3216)
RB3306	1-233-576-11	RES, CHIP NETWORK	100 (3216)
RB3307	1-233-576-11	RES, CHIP NETWORK	100 (3216)
RB3401	1-234-524-21	RES, CHIP NETWORK	33 (3216)
RB3402	1-234-524-21	RES, CHIP NETWORK	33 (3216)
RB3403	1-234-524-21	RES, CHIP NETWORK	33 (3216)
RB3404	1-234-524-21	RES, CHIP NETWORK	33 (3216)
RB3405	1-234-524-21	RES, CHIP NETWORK	33 (3216)
RB3406	1-234-524-21	RES, CHIP NETWORK	33 (3216)
RB3407	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3408	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3409	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3410	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3411	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3412	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3421	1-233-576-11	RES, CHIP NETWORK	100 (3216)
RB3422	1-233-576-11	RES, CHIP NETWORK	100 (3216)
RB3423	1-233-576-11	RES, CHIP NETWORK	100 (3216)
RB3424	1-233-576-11	RES, CHIP NETWORK	100 (3216)
RB3425	1-233-576-11	RES, CHIP NETWORK	100 (3216)
RB3426	1-233-576-11	RES, CHIP NETWORK	100 (3216)
RB3427	1-233-576-11	RES, CHIP NETWORK	100 (3216)
RB3428	1-233-576-11	RES, CHIP NETWORK	100 (3216)
RB3436	1-234-523-21	RES, CHIP NETWORK	0 (3216)
RB3437	1-234-523-21	RES, CHIP NETWORK	0 (3216)
RB3438	1-234-523-21	RES, CHIP NETWORK	0 (3216)
RB3439	1-234-523-21	RES, CHIP NETWORK	0 (3216)

REF. NO.	PART NO.	DESCRIPTION	VALUES
	CRYSTAL		
X2801	1-760-895-21	VIBRATOR, CERAMIC	
X3089	1-781-945-21	VIBRATOR, CERAMIC	
X3401	1-781-887-21	VIBRATOR, CRYSTAL	

MY

* **A-1302-937-A MY BOARD, COMPLETE**

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.

	CAPACITOR				
C2017	1-126-964-11	ELECT	10µF	20%	50V
C2019	1-126-964-11	ELECT	10µF	20%	50V
C2020	1-126-964-11	ELECT	10µF	20%	50V
C2022	1-126-964-11	ELECT	10µF	20%	50V
C2027	1-126-964-11	ELECT	10µF	20%	50V
C2029	1-126-964-11	ELECT	10µF	20%	50V
C2038	1-162-916-11	CERAMIC CHIP	12pF	5%	50V
C2039	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2040	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2041	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2042	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2043	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2044	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C2045	1-126-933-11	ELECT	100µF	20%	16V
C2046	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2050	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2058	1-126-963-11	ELECT	4.7µF	20%	50V
C2059	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2060	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2061	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2062	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2064	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2065	1-126-933-11	ELECT	100µF	20%	16V
C2066	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2067	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
C2069	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2071	1-126-963-11	ELECT	4.7µF	20%	50V
C2072	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2075	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2077	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
C2082	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2085	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2088	1-216-864-11	SHORT CHIP			
C2089	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2090	1-216-864-11	SHORT CHIP			
C2091	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C2096	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2097	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2098	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C2099	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C2100	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2103	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2106	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2107	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2108	1-126-933-11	ELECT	100µF	20%	16V
C2109	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C2110	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C2115	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2116	1-126-933-11	ELECT	100µF	20%	16V
C2117	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2122	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2123	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C2124	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2126	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2130	1-126-933-11	ELECT	100µF	20%	16V
C2131	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2132	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2200	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2201	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2202	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2204	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2205	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2206	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2207	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2208	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2209	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2210	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2211	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2212	1-126-933-11	ELECT	100µF	20%	16V
C2213	1-126-947-11	ELECT	47µF	20%	35V
C2214	1-126-933-11	ELECT	100µF	20%	16V
C2215	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2216	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2217	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2218	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2219	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2220	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2221	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C2222	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C2223	1-165-908-11	CERAMIC CHIP	1µF	10%	10V
C2224	1-115-156-11	CERAMIC CHIP	1µF		10V
C2225	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C2226	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2227	1-126-933-11	ELECT	100µF	20%	16V
C2228	1-162-913-11	CERAMIC CHIP	8pF	0.50pF	50V
C2229	1-162-913-11	CERAMIC CHIP	8pF	0.50pF	50V
C2230	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	50V
C2231	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C2232	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2233	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2234	1-126-933-11	ELECT	100µF	20%	16V
C2235	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2236	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2237	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C2238	1-126-933-11	ELECT	100µF	20%	16V
C2239	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2240	1-126-933-11	ELECT	100µF	20%	16V
C2241	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2242	1-126-934-11	ELECT	220µF	20%	16V
C2243	1-126-934-11	ELECT	220µF	20%	16V
C2244	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2245	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2246	1-126-947-11	ELECT	47µF	20%	35V
C2247	1-162-975-11	CERAMIC CHIP	24pF	5%	50V
C2248	1-162-975-11	CERAMIC CHIP	24pF	5%	50V
C2249	1-164-360-11	CERAMIC CHIP	0.1µF		16V
C2250	1-164-360-11	CERAMIC CHIP	0.1µF		16V
C2251	1-164-392-11	CERAMIC CHIP	390pF	5%	50V
C2300	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C2301	1-126-933-11	ELECT	100µF	20%	16V
C2302	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2305	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2306	1-162-920-11	CERAMIC CHIP	27pF	5%	50V
C2307	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C2308	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2309	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2310	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C2311	1-164-156-11	CERAMIC CHIP	0.1µF		25V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
C2312	1-162-910-11	CERAMIC CHIP	5pF	0.25pF	50V
C2313	1-115-156-11	CERAMIC CHIP	1µF		10V
C2315	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2317	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2318	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2319	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2349	1-162-968-11	CERAMIC CHIP	0.0047µF	10%	50V
C2352	1-126-933-11	ELECT	100µF	20%	16V
C2353	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2354	1-162-907-11	CERAMIC CHIP	2pF	0.25pF	50V
C2355	1-164-245-11	CERAMIC CHIP	0.015µF	10%	25V
C2358	1-104-655-91	ELECT	470µF	20%	6.3V
C2359	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2361	1-126-933-11	ELECT	100µF	20%	16V
C2362	1-126-933-11	ELECT	100µF	20%	16V
C2364	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2366	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2369	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C2370	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2371	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C2372	1-162-960-11	CERAMIC CHIP	220pF	10%	50V
C2373	1-135-834-91	CERAMIC CHIP	2.2µF		6.3V
C2374	1-162-960-11	CERAMIC CHIP	220pF	10%	50V
C2375	1-135-834-91	CERAMIC CHIP	2.2µF		6.3V
C2376	1-162-963-11	CERAMIC CHIP	680pF	10%	50V
C2500	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C2501	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C2503	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2504	1-126-933-11	ELECT	100µF	20%	16V
C2506	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2508	1-126-933-11	ELECT	100µF	20%	16V
C2510	1-162-960-11	CERAMIC CHIP	220pF	10%	50V
C2512	1-135-834-91	CERAMIC CHIP	2.2µF		6.3V
C2513	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C2514	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2515	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2516	1-126-933-11	ELECT	100µF	20%	16V
C2517	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C2518	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C2519	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2520	1-162-960-11	CERAMIC CHIP	220pF	10%	50V
C2521	1-162-960-11	CERAMIC CHIP	220pF	10%	50V
C2522	1-126-947-11	ELECT	47µF	20%	35V
C2523	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2524	1-135-834-91	CERAMIC CHIP	2.2µF		6.3V
C2525	1-135-834-91	CERAMIC CHIP	2.2µF		6.3V
C2527	1-135-834-91	CERAMIC CHIP	2.2µF		6.3V
C2528	1-162-962-11	CERAMIC CHIP	470pF	10%	50V
C2530	1-126-947-11	ELECT	47µF	20%	35V
C2532	1-135-834-91	CERAMIC CHIP	2.2µF		6.3V
C2533	1-162-960-11	CERAMIC CHIP	220pF	10%	50V
C2534	1-126-947-11	ELECT	47µF	20%	35V
C2535	1-162-962-11	CERAMIC CHIP	470pF	10%	50V
C2536	1-135-834-91	CERAMIC CHIP	2.2µF		6.3V
C2538	1-126-947-11	ELECT	47µF	20%	35V
C2539	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2540	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	50V
C2541	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	50V
C2542	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2543	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2544	1-126-963-11	ELECT	4.7µF	20%	50V
C2545	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C2546	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C2548	1-126-947-11	ELECT	47µF	20%	35V
C2549	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2550	1-126-963-11	ELECT	4.7µF	20%	50V
C2551	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2553	1-126-947-11	ELECT	47µF	20%	35V
C2554	1-126-947-11	ELECT	47µF	20%	35V
C2558	1-126-963-11	ELECT	4.7µF	20%	50V
C2559	1-126-933-11	ELECT	100µF	20%	16V
C2560	1-126-947-11	ELECT	47µF	20%	35V
C2561	1-126-963-11	ELECT	4.7µF	20%	50V
C2563	1-126-961-11	ELECT	2.2µF	20%	50V
C2564	1-126-961-11	ELECT	2.2µF	20%	50V
C2565	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C2566	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2569	1-126-961-11	ELECT	2.2µF	20%	50V
C2570	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C2571	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2572	1-126-960-11	ELECT	1µF	20%	50V
C2574	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C2575	1-126-960-11	ELECT	1µF	20%	50V
C2579	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C2582	1-126-933-11	ELECT	100µF	20%	16V
C2584	1-126-933-11	ELECT	100µF	20%	16V
C2585	1-135-834-91	CERAMIC CHIP	2.2µF		6.3V
C2586	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V

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	REF. NO.	PART NO.	DESCRIPTION	VALUES		
	C2587	1-135-834-91	CERAMIC CHIP	2.2µF		6.3V
	C2588	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
		CONNECTOR				
	CN2003	1-784-650-21	CONNECTOR	2P		
	CN2004	1-785-946-21	CONNECTOR	3P		
	CN2006	1-793-174-11	SOCKET,PC CONNECTOR (PC BOARD)			
*	CN2301	1-764-333-11	PIN, CONNECTOR(PCB)(V TYPE)	10P		
*	CN2304	1-564-595-11	PLUG, CONNECTOR	14P		
	CN2305	1-770-721-11	CONNECTOR, BOARD TO BOARD	4P		
		DIODE				
	D2310	8-719-083-57	DIODE	UDZSTE-173.6B		
	D2500	8-719-404-50	DIODE	MA111-TX		
	D2501	8-719-404-50	DIODE	MA111-TX		
	D2502	8-719-404-50	DIODE	MA111-TX		
	D2503	8-719-404-50	DIODE	MA111-TX		
	D2504	8-719-404-50	DIODE	MA111-TX		
	D2505	8-719-978-33	DIODE	DTZ-TT11-6.8B		
	D2506	8-719-978-33	DIODE	DTZ-TT11-6.8B		
	D2507	8-719-404-50	DIODE	MA111-TX		
		FERRITE BEAD				
	FB2200	1-414-229-11	FERRITE	0µH		
	FB2501	1-216-864-11	SHORT CHIP			
	FB2503	1-216-864-11	SHORT CHIP			
	FB2504	1-216-864-11	SHORT CHIP			
	FB2505	1-414-229-11	FERRITE	0µH		
	FB2507	1-414-229-11	FERRITE	0µH		
	FB2508	1-414-229-11	FERRITE	0µH		
	FB2509	1-216-864-11	SHORT CHIP			
	FB2510	1-414-229-11	FERRITE	0µH		
	FB2511	1-216-864-11	SHORT CHIP			
	FB2512	1-414-229-11	FERRITE	0µH		
	FB2513	1-216-864-11	SHORT CHIP			
	FB2514	1-216-864-11	SHORT CHIP			
	FB2515	1-414-229-11	FERRITE	0µH		
	FB2516	1-414-229-11	FERRITE	0µH		
	FB2517	1-414-229-11	FERRITE	0µH		
	FB2518	1-414-229-11	FERRITE	0µH		
	FB2519	1-414-229-11	FERRITE	0µH		
	FB2520	1-216-864-11	SHORT CHIP			
	FB2521	1-216-864-11	SHORT CHIP			
	FB2522	1-414-229-11	FERRITE	0µH		

REF. NO.	PART NO.	DESCRIPTION	VALUES		
	FILTER				
FL2201	1-239-848-21	FILTER, LOW PASS			
FL2202	1-239-848-21	FILTER, LOW PASS			
FL2203	1-239-848-21	FILTER, LOW PASS			
FL2204	1-239-848-21	FILTER, LOW PASS			
FL2205	1-409-755-11	FERRITE	0µH		
FL2206	1-409-755-11	FERRITE	0µH		
FL2207	1-409-755-11	FERRITE	0µH		
	IC				
IC2004	8-752-102-21	IC	CXA2103AQ		
IC2006	8-752-108-35	IC	CXA2171AQ		
IC2010	8-759-549-07	IC	SN74LV157APWR		
IC2200	6-700-960-01	IC	UPD64083GF-3BA		
IC2201	6-700-399-01	IC	UPC2925T-E1		
IC2300	6-804-283-01	IC	M306V7MG-078FPU0		
IC2301	6-801-375-01	IC	PST9129NL		
IC2302	6-704-573-01	IC	M24C32-WMN6T(B)		
IC2305	8-759-641-26	IC	NJM2391DL1-33(TE1)		
IC2500	8-759-394-57	IC	PST593C-MMP-4P		
IC2501	6-801-750-01	IC	TC94A04F-014		
IC2502	8-759-331-71	IC	NJM4558E(TE2)		
	COIL				
L2005	1-469-555-21	INDUCTOR	10µH		
L2007	1-469-555-21	INDUCTOR	10µH		
L2009	1-469-555-21	INDUCTOR	10µH		
L2011	1-469-555-21	INDUCTOR	10µH		
L2012	1-469-555-21	INDUCTOR	10µH		
L2013	1-469-555-21	INDUCTOR	10µH		
L2200	1-469-555-21	INDUCTOR	10µH		
L2201	1-469-555-21	INDUCTOR	10µH		
L2202	1-469-555-21	INDUCTOR	10µH		
L2203	1-216-001-00	RES-CHIP	10	5%	1/10W
L2204	1-469-555-21	INDUCTOR	10µH		
L2205	1-216-001-00	RES-CHIP	10	5%	1/10W
L2206	1-469-555-21	INDUCTOR	10µH		
L2207	1-469-553-21	INDUCTOR	4.7µH		
L2501	1-412-537-31	INDUCTOR	100µH		
L2502	1-216-295-91	SHORT CHIP			

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REF. NO.	PART NO.	DESCRIPTION	VALUES
	TRANSISTOR		
Q2009	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2013	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2016	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2200	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2201	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2202	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2203	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2204	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2205	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2206	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2207	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2208	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2209	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2210	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2211	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2212	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2213	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2214	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2215	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2216	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2301	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2303	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2304	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2312	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2313	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2314	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2315	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2316	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2320	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2321	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2322	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2324	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2500	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2501	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2502	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX
Q2503	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2504	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2505	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2506	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2507	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2508	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2509	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2510	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2511	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2512	8-729-422-27	TRANSISTOR	2SD601A-Q
Q2513	8-729-422-27	TRANSISTOR	2SD601A-Q
	RESISTOR		
R2036	1-216-837-11	METAL CHIP	22K 5% 1/10W
R2037	1-216-864-11	SHORT CHIP	
R2038	1-216-864-11	SHORT CHIP	
R2039	1-216-864-11	SHORT CHIP	
R2041	1-216-837-11	METAL CHIP	22K 5% 1/10W
R2042	1-216-864-11	SHORT CHIP	
R2043	1-216-864-11	SHORT CHIP	
R2044	1-216-864-11	SHORT CHIP	
R2052	1-216-835-11	METAL CHIP	15K 5% 1/10W
R2053	1-216-864-11	SHORT CHIP	
R2055	1-216-833-11	METAL CHIP	10K 5% 1/10W
R2056	1-216-809-11	METAL CHIP	100 5% 1/10W
R2057	1-216-809-11	METAL CHIP	100 5% 1/10W
R2061	1-216-828-11	METAL CHIP	3.9K 5% 1/10W
R2067	1-216-809-11	METAL CHIP	100 5% 1/10W
R2069	1-216-809-11	METAL CHIP	100 5% 1/10W
R2074	1-216-833-11	METAL CHIP	10K 5% 1/10W
R2076	1-216-809-11	METAL CHIP	100 5% 1/10W
R2078	1-216-864-11	SHORT CHIP	
R2079	1-216-864-11	SHORT CHIP	
R2081	1-216-809-11	METAL CHIP	100 5% 1/10W
R2082	1-216-809-11	METAL CHIP	100 5% 1/10W
R2083	1-216-851-11	METAL CHIP	330K 5% 1/10W
R2094	1-218-716-11	METAL CHIP	10K 0.50% 1/10W
R2095	1-216-864-11	SHORT CHIP	
R2097	1-216-809-11	METAL CHIP	100 5% 1/10W
R2101	1-216-821-11	METAL CHIP	1K 5% 1/10W
R2102	1-216-864-11	SHORT CHIP	
R2103	1-216-809-11	METAL CHIP	100 5% 1/10W
R2104	1-216-864-11	SHORT CHIP	
R2107	1-216-809-11	METAL CHIP	100 5% 1/10W
R2114	1-216-805-11	METAL CHIP	47 5% 1/10W
R2115	1-216-805-11	METAL CHIP	47 5% 1/10W
R2116	1-216-805-11	METAL CHIP	47 5% 1/10W
R2117	1-216-864-11	SHORT CHIP	
R2118	1-216-809-11	METAL CHIP	100 5% 1/10W
R2119	1-216-809-11	METAL CHIP	100 5% 1/10W
R2126	1-216-809-11	METAL CHIP	100 5% 1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2127	1-216-864-11	SHORT CHIP				R2228	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2128	1-216-864-11	SHORT CHIP				R2229	1-216-849-11	METAL CHIP	220K	5%	1/10W
R2130	1-216-864-11	SHORT CHIP				R2230	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2131	1-216-809-11	METAL CHIP	100	5%	1/10W	R2231	1-216-819-11	METAL CHIP	680	5%	1/10W
R2133	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R2232	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2134	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R2233	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2135	1-216-864-11	SHORT CHIP				R2234	1-216-820-11	METAL CHIP	820	5%	1/10W
R2137	1-216-864-11	SHORT CHIP				R2235	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R2138	1-216-864-11	SHORT CHIP				R2236	1-216-813-11	METAL CHIP	220	5%	1/10W
R2139	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R2237	1-216-820-11	METAL CHIP	820	5%	1/10W
R2140	1-216-864-11	SHORT CHIP				R2238	1-216-819-11	METAL CHIP	680	5%	1/10W
R2141	1-216-864-11	SHORT CHIP				R2239	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2142	1-216-864-11	SHORT CHIP				R2240	1-216-834-11	METAL CHIP	12K	5%	1/10W
R2143	1-216-864-11	SHORT CHIP				R2241	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2144	1-216-864-11	SHORT CHIP				R2242	1-218-680-11	METAL CHIP	330	0.50%	1/10W
R2145	1-216-864-11	SHORT CHIP				R2243	1-216-834-11	METAL CHIP	12K	5%	1/10W
R2146	1-216-864-11	SHORT CHIP				R2244	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2201	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2245	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R2202	1-216-809-11	METAL CHIP	100	5%	1/10W	R2246	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2203	1-216-809-11	METAL CHIP	100	5%	1/10W	R2247	1-216-805-11	METAL CHIP	47	5%	1/10W
R2204	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2248	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2205	1-216-864-11	SHORT CHIP				R2249	1-216-805-11	METAL CHIP	47	5%	1/10W
R2206	1-216-864-11	SHORT CHIP				R2250	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R2207	1-216-809-11	METAL CHIP	100	5%	1/10W	R2251	1-216-818-11	METAL CHIP	560	5%	1/10W
R2208	1-216-809-11	METAL CHIP	100	5%	1/10W	R2252	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2209	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2253	1-216-809-11	METAL CHIP	100	5%	1/10W
R2210	1-216-818-11	METAL CHIP	560	5%	1/10W	R2254	1-216-817-11	METAL CHIP	470	5%	1/10W
R2211	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2255	1-216-817-11	METAL CHIP	470	5%	1/10W
R2212	1-216-818-11	METAL CHIP	560	5%	1/10W	R2256	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2213	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2257	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2214	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2298	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2215	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R2299	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2216	1-216-817-11	METAL CHIP	470	5%	1/10W	R2300	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2217	1-216-817-11	METAL CHIP	470	5%	1/10W	R2301	1-216-809-11	METAL CHIP	100	5%	1/10W
R2218	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R2302	1-216-809-11	METAL CHIP	100	5%	1/10W
R2219	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R2303	1-216-809-11	METAL CHIP	100	5%	1/10W
R2220	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2304	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2221	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R2305	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2222	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2306	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2223	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R2307	1-216-809-11	METAL CHIP	100	5%	1/10W
R2224	1-216-809-11	METAL CHIP	100	5%	1/10W	R2308	1-216-809-11	METAL CHIP	100	5%	1/10W
R2225	1-216-818-11	METAL CHIP	560	5%	1/10W	R2311	1-216-809-11	METAL CHIP	100	5%	1/10W
R2226	1-216-817-11	METAL CHIP	470	5%	1/10W	R2312	1-216-809-11	METAL CHIP	100	5%	1/10W
R2227	1-216-816-11	METAL CHIP	390	5%	1/10W	R2313	1-216-809-11	METAL CHIP	100	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2314	1-216-809-11	METAL CHIP	100	5%	1/10W	R2365	1-216-809-11	METAL CHIP	100	5%	1/10W
R2315	1-216-809-11	METAL CHIP	100	5%	1/10W	R2366	1-216-864-11	SHORT CHIP			
R2316	1-216-809-11	METAL CHIP	100	5%	1/10W	R2367	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2317	1-216-809-11	METAL CHIP	100	5%	1/10W	R2368	1-216-809-11	METAL CHIP	100	5%	1/10W
R2318	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2369	1-216-805-11	METAL CHIP	47	5%	1/10W
R2319	1-216-809-11	METAL CHIP	100	5%	1/10W	R2370	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2321	1-216-809-11	METAL CHIP	100	5%	1/10W	R2371	1-216-809-11	METAL CHIP	100	5%	1/10W
R2322	1-216-809-11	METAL CHIP	100	5%	1/10W	R2372	1-216-809-11	METAL CHIP	100	5%	1/10W
R2323	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2373	1-216-809-11	METAL CHIP	100	5%	1/10W
R2324	1-216-809-11	METAL CHIP	100	5%	1/10W	R2374	1-216-864-11	SHORT CHIP			
R2325	1-216-864-11	SHORT CHIP				R2375	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2326	1-216-809-11	METAL CHIP	100	5%	1/10W	R2376	1-216-805-11	METAL CHIP	47	5%	1/10W
R2327	1-216-809-11	METAL CHIP	100	5%	1/10W	R2377	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2328	1-216-809-11	METAL CHIP	100	5%	1/10W	R2378	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2329	1-216-815-11	METAL CHIP	330	5%	1/10W	R2379	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2330	1-216-817-11	METAL CHIP	470	5%	1/10W	R2380	1-216-809-11	METAL CHIP	100	5%	1/10W
R2333	1-216-809-11	METAL CHIP	100	5%	1/10W	R2381	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2335	1-216-820-11	METAL CHIP	820	5%	1/10W	R2383	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2336	1-216-809-11	METAL CHIP	100	5%	1/10W	R2388	1-216-815-11	METAL CHIP	330	5%	1/10W
R2337	1-216-809-11	METAL CHIP	100	5%	1/10W	R2389	1-216-815-11	METAL CHIP	330	5%	1/10W
R2338	1-216-864-11	SHORT CHIP				R2390	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2339	1-216-809-11	METAL CHIP	100	5%	1/10W	R2450	1-216-864-11	SHORT CHIP			
R2341	1-216-809-11	METAL CHIP	100	5%	1/10W	R2452	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2342	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2453	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2343	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2455	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2344	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2459	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2345	1-216-809-11	METAL CHIP	100	5%	1/10W	R2460	1-216-809-11	METAL CHIP	100	5%	1/10W
R2346	1-218-734-11	METAL CHIP	56K	0.50%	1/10W	R2464	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2347	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2466	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2348	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2467	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2350	1-216-809-11	METAL CHIP	100	5%	1/10W	R2469	1-216-809-11	METAL CHIP	100	5%	1/10W
R2351	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2471	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2352	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2480	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2353	1-216-809-11	METAL CHIP	100	5%	1/10W	R2481	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2354	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2483	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2355	1-216-809-11	METAL CHIP	100	5%	1/10W	R2484	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2357	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2485	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2358	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2486	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2359	1-216-805-11	METAL CHIP	47	5%	1/10W	R2487	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2360	1-216-809-11	METAL CHIP	100	5%	1/10W	R2488	1-216-857-11	METAL CHIP	1M	5%	1/10W
R2361	1-216-864-11	SHORT CHIP				R2489	1-216-817-11	METAL CHIP	470	5%	1/10W
R2362	1-216-805-11	METAL CHIP	47	5%	1/10W	R2490	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2363	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2493	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2364	1-216-809-11	METAL CHIP	100	5%	1/10W	R2494	1-216-821-11	METAL CHIP	1K	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2500	1-216-809-11	METAL CHIP	100	5%	1/10W
R2501	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2502	1-216-864-11	SHORT CHIP			
R2503	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2506	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2508	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2509	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2510	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2511	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2512	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2513	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2514	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2515	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2516	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2517	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2518	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2519	1-216-857-11	METAL CHIP	1M	5%	1/10W
R2520	1-216-864-11	SHORT CHIP			
R2521	1-216-864-11	SHORT CHIP			
R2522	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2523	1-216-813-11	METAL CHIP	220	5%	1/10W
R2524	1-216-809-11	METAL CHIP	100	5%	1/10W
R2525	1-216-813-11	METAL CHIP	220	5%	1/10W
R2526	1-216-864-11	SHORT CHIP			
R2528	1-216-809-11	METAL CHIP	100	5%	1/10W
R2529	1-216-809-11	METAL CHIP	100	5%	1/10W
R2530	1-216-809-11	METAL CHIP	100	5%	1/10W
R2531	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2532	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2533	1-216-864-11	SHORT CHIP			
R2534	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2535	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2536	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2538	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2539	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2540	1-216-864-11	SHORT CHIP			
R2541	1-216-864-11	SHORT CHIP			
R2542	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2543	1-216-864-11	SHORT CHIP			
R2546	1-216-813-11	METAL CHIP	220	5%	1/10W
R2547	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2548	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2549	1-216-813-11	METAL CHIP	220	5%	1/10W
R2550	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2551	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2552	1-216-809-11	METAL CHIP	100	5%	1/10W
R2553	1-216-853-11	METAL CHIP	470K	5%	1/10W
R2554	1-216-809-11	METAL CHIP	100	5%	1/10W
R2555	1-216-853-11	METAL CHIP	470K	5%	1/10W
R2556	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2557	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2558	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2559	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2560	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2561	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2562	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2563	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2564	1-216-817-11	METAL CHIP	470	5%	1/10W
R2565	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2566	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2567	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2568	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2569	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2570	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2571	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2572	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2573	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2574	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2575	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2576	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2577	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2578	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2579	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2580	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2581	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2582	1-216-809-11	METAL CHIP	100	5%	1/10W
R2585	1-216-864-11	SHORT CHIP			
R2593	1-216-864-11	SHORT CHIP			
R2603	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2604	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2605	1-216-864-11	SHORT CHIP			
R2607	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2608	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2609	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2610	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2611	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2612	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

MY P

REF. NO.	PART NO.	DESCRIPTION	VALUES		
	CRYSTAL				
X2001	1-567-505-11	OSCILLATOR, CRYSTAL			
X2003	1-781-282-11	VIBRATOR, CERAMIC			
X2200	1-767-606-11	VIBRATOR, CRYSTAL			
X2300	1-795-572-11	VIBRATOR, CRYSTAL			
X2500	1-767-639-21	VIBRATOR, CRYSTAL			

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* **A-1302-939-A P BOARD, COMPLETE**

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.

	CAPACITOR				
C9507	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C9508	1-126-394-11	ELECT CHIP	10µF	20%	16V
C9509	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C9510	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C9511	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C9513	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C9514	1-126-394-11	ELECT CHIP	10µF	20%	16V
C9515	1-126-394-11	ELECT CHIP	10µF	20%	16V
C9516	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C9517	1-126-394-11	ELECT CHIP	10µF	20%	16V
C9519	1-100-566-91	CERAMIC CHIP	0.1µF	10%	25V
C9521	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C9523	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C9524	1-100-566-91	CERAMIC CHIP	0.1µF	10%	25V
C9525	1-100-566-91	CERAMIC CHIP	0.1µF	10%	25V
C9526	1-126-394-11	ELECT CHIP	10µF	20%	16V
C9527	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C9528	1-126-246-11	ELECT CHIP	220µF	20%	4V
C9529	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C9530	1-126-394-11	ELECT CHIP	10µF	20%	16V
C9531	1-126-394-11	ELECT CHIP	10µF	20%	16V
C9532	1-126-394-11	ELECT CHIP	10µF	20%	16V
C9533	1-100-566-91	CERAMIC CHIP	0.1µF	10%	25V
C9534	1-100-566-91	CERAMIC CHIP	0.1µF	10%	25V
C9535	1-100-566-91	CERAMIC CHIP	0.1µF	10%	25V
C9537	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C9538	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C9540	1-100-566-91	CERAMIC CHIP	0.1µF	10%	25V
C9541	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C9542	1-126-394-11	ELECT CHIP	10µF	20%	16V
C9543	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C9545	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C9546	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C9547	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C9549	1-100-566-91	CERAMIC CHIP	0.1µF	10%	25V
C9550	1-100-566-91	CERAMIC CHIP	0.1µF	10%	25V
C9551	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C9552	1-126-246-11	ELECT CHIP	220µF	20%	4V
C9553	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C9554	1-126-394-11	ELECT CHIP	10µF	20%	16V
C9555	1-126-394-11	ELECT CHIP	10µF	20%	16V
C9557	1-100-566-91	CERAMIC CHIP	0.1µF	10%	25V
C9558	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C9559	1-126-394-11	ELECT CHIP	10µF	20%	16V
C9560	1-126-246-11	ELECT CHIP	220µF	20%	4V
C9561	1-100-756-91	CERAMIC CHIP	0.047µF		50V
C9562	1-127-692-11	CERAMIC CHIP	10µF	10%	16V
C9563	1-126-394-11	ELECT CHIP	10µF	20%	16V
C9571	1-126-394-11	ELECT CHIP	10µF	20%	16V
C9575	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C9576	1-126-394-11	ELECT CHIP	10µF	20%	16V
C9578	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C9579	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C9583	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C9584	1-100-566-91	CERAMIC CHIP	0.1µF	10%	25V
C9585	1-100-566-91	CERAMIC CHIP	0.1µF	10%	25V
C9586	1-100-566-91	CERAMIC CHIP	0.1µF	10%	25V
C9587	1-100-566-91	CERAMIC CHIP	0.1µF	10%	25V
C9588	1-100-566-91	CERAMIC CHIP	0.1µF	10%	25V
C9589	1-100-566-91	CERAMIC CHIP	0.1µF	10%	25V
C9623	1-100-566-91	CERAMIC CHIP	0.1µF	10%	25V
C9824	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C9825	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C9826	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C9828	1-126-394-11	ELECT CHIP	10µF	20%	16V
C9830	1-100-566-91	CERAMIC CHIP	0.1µF	10%	25V
C9831	1-126-394-11	ELECT CHIP	10µF	20%	16V
C9832	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C9833	1-100-566-91	CERAMIC CHIP	0.1µF	10%	25V
C9835	1-100-588-21	ELECT CHIP	1000µF	20%	6.3V
C9836	1-126-394-11	ELECT CHIP	10µF	20%	16V
C9839	1-126-394-11	ELECT CHIP	10µF	20%	16V

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	REF. NO.	PART NO.	DESCRIPTION	VALUES		
	C9841	1-100-118-21	ELECT CHIP	82µF	20%	16V
	C9842	1-137-897-21	ELECT CHIP	150µF	20%	4V
	C9843	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
		CONNECTOR				
*	CN9500	1-818-400-11	HDMI CONNECTOR			
	CN9504	1-564-593-11	PLUG, CONNECTOR 14P			
		DI0DE				
	D9500	8-719-210-39	DIODE	EC10QS-04		
	D9501	6-500-294-01	DIODE	PTZ-TE25-3.9B		
	D9502	8-719-977-28	DIODE	DTZ10B		
	D9503	8-719-977-28	DIODE	DTZ10B		
	D9506	8-719-404-50	DIODE	MA111-TX		
	D9507	8-719-404-50	DIODE	MA111-TX		
		FERRITE BEAD				
	FB9504	1-414-235-22	FERRITE	0UH		
	FB9505	1-414-235-22	FERRITE	0UH		
	FB9506	1-414-235-22	FERRITE	0UH		
	FB9507	1-414-235-22	FERRITE	0UH		
	FB9508	1-414-235-22	FERRITE	0UH		
	FB9509	1-414-235-22	FERRITE	0UH		
	FB9510	1-414-235-22	FERRITE	0UH		
	FB9512	1-414-235-22	FERRITE	0UH		
		FILTER				
*	FL9501	1-813-308-11	COMMON MODE CHOKE			
*	FL9504	1-813-308-11	COMMON MODE CHOKE			
*	FL9505	1-813-308-11	COMMON MODE CHOKE			
*	FL9506	1-813-308-11	COMMON MODE CHOKE			
		IC				
	IC9500	6-706-257-01	IC	FMS6418AM16X		
	IC9502	6-704-819-01	IC	CS4335-KSZR		
	IC9503	6-704-407-01	IC	PQ1CZ41H2ZPH		
	IC9504	6-704-001-01	IC	BR24L02F-WE2		
	IC9505	6-704-499-01	IC	SII9993CTG100		
	IC9506	6-703-042-01	IC	CD4052BNSR		
	IC9509	6-550-014-01	TRANSISTOR	SSM6N15FU(TE85R)		
	IC9514	8-759-331-71	IC	NJM4558E(TE2)		
	IC9517	6-804-248-01	IC	HD64F3694FXV-DA4		
	IC9521	8-759-642-22	IC	UPC29M05T-E2		

REF. NO.	PART NO.	DESCRIPTION	VALUES		
	JACK				
J9503	1-794-623-11	JACK, PIN 2P			
	COIL				
L9501	1-416-948-21	INDUCTOR	10UH		
L9502	1-400-303-21	INDUCTOR	68UH		
PS9500	1-576-415-21	FUSE	2A	32V	
	TRANSISTOR				
Q9501	8-729-024-88	TRANSISTOR	MUN2212T1		
Q9502	8-729-421-22	TRANSISTOR	UN2211		
Q9503	8-729-024-88	TRANSISTOR	MUN2212T1		
Q9506	8-729-024-88	TRANSISTOR	MUN2212T1		
Q9511	8-729-421-22	TRANSISTOR	UN2211		
Q9514	8-729-024-88	TRANSISTOR	MUN2212T1		
Q9516	8-729-421-22	TRANSISTOR	UN2211		
Q9517	8-729-421-22	TRANSISTOR	UN2211		
	RESISTOR				
R9501	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R9502	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R9505	1-216-841-11	METAL CHIP	47K	5%	1/10W
R9507	1-216-857-11	METAL CHIP	1M	5%	1/10
R9508	1-216-857-11	METAL CHIP	1M	5%	1/10W
R9509	1-216-857-11	METAL CHIP	1M	5%	1/10W
R9510	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R9511	1-216-803-11	METAL CHIP	33	5%	1/10W
R9512	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R9513	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R9514	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R9515	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R9516	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R9517	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R9518	1-216-857-11	METAL CHIP	1M	5%	1/10W
R9519	1-216-803-11	METAL CHIP	33	5%	1/10W
R9520	1-216-816-11	METAL CHIP	390	5%	1/10W
R9526	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R9528	1-216-837-11	METAL CHIP	22K	5%	1/10W
R9529	1-216-850-11	METAL CHIP	270K	5%	1/10W
R9530	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9531	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R9532	1-218-694-11	METAL CHIP	1.2K	0.50%	1/10W
R9533	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R9534	1-218-686-11	METAL CHIP	560	0.50%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R9535	1-216-845-11	METAL CHIP	100K	5%	1/10W
R9538	1-218-823-11	METAL CHIP	100	0.50%	1/10W
R9539	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9540	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R9541	1-218-694-11	METAL CHIP	1.2K	0.50%	1/10W
R9542	1-216-850-11	METAL CHIP	270K	5%	1/10W
R9543	1-218-686-11	METAL CHIP	560	0.50%	1/10W
R9544	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W
R9546	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W
R9547	1-216-845-11	METAL CHIP	100K	5%	1/10W
R9548	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R9552	1-216-817-11	METAL CHIP	470	5%	1/10W
R9555	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W
R9556	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R9557	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W
R9558	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R9559	1-216-809-11	METAL CHIP	100	5%	1/10W
R9560	1-216-864-11	SHORT CHIP	0		
R9562	1-216-809-11	METAL CHIP	100	5%	1/10W
R9563	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W
R9564	1-216-837-11	METAL CHIP	22K	5%	1/10W
R9565	1-216-845-11	METAL CHIP	100K	5%	1/10W
R9566	1-216-864-11	SHORT CHIP	0		
R9569	1-216-845-11	METAL CHIP	100K	5%	1/10W
R9572	1-216-837-11	METAL CHIP	22K	5%	1/10W
R9574	1-216-809-11	METAL CHIP	100	5%	1/10W
R9575	1-216-809-11	METAL CHIP	100	5%	1/10W
R9576	1-216-857-11	METAL CHIP	1M	5%	1/10W
R9577	1-216-857-11	METAL CHIP	1M	5%	1/10W
R9580	1-216-809-11	METAL CHIP	100	5%	1/10W
R9581	1-216-809-11	METAL CHIP	100	5%	1/10W
R9582	1-216-833-11	METAL CHIP	10K	5%	1/10W
R9584	1-216-833-11	METAL CHIP	10K	5%	1/10W
R9585	1-216-809-11	METAL CHIP	100	5%	1/10W
R9586	1-216-809-11	METAL CHIP	100	5%	1/10W
R9592	1-216-809-11	METAL CHIP	100	5%	1/10W
R9595	1-216-817-11	METAL CHIP	470	5%	1/10W
R9597	1-216-803-11	METAL CHIP	33	5%	1/10W
R9602	1-216-809-11	METAL CHIP	100	5%	1/10W
R9606	1-216-864-11	SHORT CHIP	0		
R9612	1-216-864-11	SHORT CHIP	0		
R9613	1-216-809-11	METAL CHIP	100	5%	1/10W
R9614	1-216-809-11	METAL CHIP	100	5%	1/10W
R9615	1-216-809-11	METAL CHIP	100	5%	1/10W
R9616	1-216-809-11	METAL CHIP	100	5%	1/10W
R9623	1-216-845-11	METAL CHIP	100K	5%	1/10W
R9624	1-216-845-11	METAL CHIP	100K	5%	1/10W
R9625	1-216-845-11	METAL CHIP	100K	5%	1/10W
R9626	1-216-833-11	METAL CHIP	10K	5%	1/10W
R9627	1-216-809-11	METAL CHIP	100	5%	1/10W
R9850	1-216-833-11	METAL CHIP	10K	5%	1/10W
R9851	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9852	1-218-644-11	METAL CHIP	10	0.50%	1/10W
R9853	1-216-845-11	METAL CHIP	100K	5%	1/10W
R9854	1-216-845-11	METAL CHIP	100K	5%	1/10W
R9860	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W
R9864	1-218-701-11	METAL CHIP	2.4K	0.50%	1/10W
R9866	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9867	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9868	1-216-833-11	METAL CHIP	10K	5%	1/10W
R9869	1-216-833-11	METAL CHIP	10K	5%	1/10W
R9882	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R9883	1-216-838-11	METAL CHIP	27K	5%	1/10W
R9884	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R9885	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R9886	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R9887	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R9888	1-218-847-11	METAL CHIP	1K	0.50%	1/10W
R9890	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R9891	1-216-809-11	METAL CHIP	100	5%	1/10W
R9892	1-216-809-11	METAL CHIP	100	5%	1/10W

RESISTOR BRIDGE

RB9500	1-234-524-21	RES, CHIP NETWORK 33 (3216)	
RB9510	1-233-576-11	RES, CHIP NETWORK 100 (3216)	
RB9511	1-233-574-11	RES, CHIP NETWORK 10 (3216)	
RB9512	1-233-574-11	RES, CHIP NETWORK 10 (3216)	
RB9516	1-236-908-11	NETWORK RESISTOR(CHIP)	10K
RB9517	1-236-908-11	NETWORK RESISTOR(CHIP)	10K

VARISTOR

VD9500	1-805-601-11	OVERVOLTAGE PROTECTOR
VD9501	1-805-601-11	OVERVOLTAGE PROTECTOR
VD9502	1-805-601-11	OVERVOLTAGE PROTECTOR
VD9503	1-805-601-11	OVERVOLTAGE PROTECTOR
VD9504	1-805-601-11	OVERVOLTAGE PROTECTOR

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REF. NO.	PART NO.	DESCRIPTION	VALUES
VD9505	1-805-601-11	OVERVOLTAGE PROTECTOR	
VD9506	1-805-601-11	OVERVOLTAGE PROTECTOR	
VD9507	1-805-601-11	OVERVOLTAGE PROTECTOR	
VD9518	1-805-601-11	OVERVOLTAGE PROTECTOR	
VD9519	1-805-601-11	OVERVOLTAGE PROTECTOR	
	CRYSTAL		
X9501	1-767-984-21	VIBRATOR, CRYSTAL	
	ACCESSORIES AND PACKING		
*	2-059-745-01	BAG, PROTECTION (KV-27HS420, 29DRC420 ONLY)	
*	2-067-077-01	BAG, PROTECTION (KV-30HS420, 32HS420, 34HS420 ONLY)	
*	4-066-646-02	BAG, PROTECTION (KV-36HS420 ONLY)	
*	4-102-093-01	CARTON, INDIVIDUAL (KV-30HS420 ONLY)	
*	4-102-096-01	CARTON, INDIVIDUAL (KV-34HS420 ONLY)	
*	4-102-197-01	CARTON, INDIVIDUAL (KV-27HS420 ONLY)	
*	4-102-200-01	CARTON, INDIVIDUAL (KV-32HS420 ONLY)	
*	4-102-204-01	CARTON, INDIVIDUAL (KV-36HS420 ONLY)	
*	4-103-041-01	CARTON, INDIVIDUAL (KV-29DRC420 ONLY)	
*	4-102-097-01	CUSHION, (FRONT) UPPER (KV-34HS420 ONLY)	
*	4-102-201-01	CUSHION, (FRONT) UPPER (KV-32HS420 ONLY)	
*	4-102-205-01	CUSHION, (FRONT) UPPER (KV-36HS420 ONLY)	
*	4-102-098-01	CUSHION, (REAR) UPPER (KV-34HS420 ONLY)	
*	4-102-202-01	CUSHION, (REAR) UPPER (KV-32HS420 ONLY)	
*	4-102-206-01	CUSHION, (REAR) UPPER (KV-36HS420 ONLY)	
*	4-102-095-01	CUSHION, LOWER (KV-30HS420 ONLY)	
*	4-102-099-01	CUSHION, LOWER (KV-34HS420 ONLY)	
*	4-102-199-01	CUSHION, LOWER (KV-27HS420, 29DRC420 ONLY)	
*	4-102-203-01	CUSHION, LOWER (KV-32HS420 ONLY)	
*	4-102-207-01	CUSHION, LOWER (KV-36HS420 ONLY)	
*	4-102-094-01	CUSHION, UPPER (KV-30HS420 ONLY)	
*	4-102-198-01	CUSHION, UPPER (KV-27HS420, 29DRC420 ONLY)	
	4-102-732-21	MANUAL, INSTRUCTION (ALL EXCEPT KV-30HS420, 34HS420)	
	4-102-735-21	MANUAL, INSTRUCTION (KV-30HS420, 34HS420 ONLY)	
	REMOTE COMMANDER		
	1-478-709-11	REMOTE COMMANDER RM-Y197	
	4-978-977-01	BATTERY COVER (for RM-Y197)	

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Sony Technology Center
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In an effort to reduce the size of this pdf file the tiled schematics are not attached to this Service Manual. To receive a complete set of the tiled schematics for this manual please submit a request to Nita Wardlaw at nita.wardlaw@am.sony.com.